

6TH JIPMER RESEARCH LEADERSHIP MENTORING PROGRAMME (JRLMP-6)

ON

21ST TO 25TH OCTOBER - 2024 (PHASE - I)

20TH TO 24TH JANUARY - 2025 (PHASE - II)

**Two Phases of Intensive Offline Training
with Hands on Exercise in Research
Designs, Basic and Advanced Methods
in Biostatistics, Proposal Writing,
Methods of Technical Evaluation of
Proposals, Preparation of Project
Reports and Use of Statistical Packages**



Organised by

**DEPARTMENT OF BIOSTATISTICS
JIPMER, PUDUCHERRY**

Dear Friends,

After the successful conduct of Five JIPMER Research Leadership Mentoring Programmes (JRLMP) for Medical faculty members of JIPMER and other National level institutes, we are delighted to announce the conduct of 6th batch of JIPMER Research Leadership Mentoring Programme (JRLMP-6). The aim of this program is to develop high quality medical research leadership for the institute and at the National level. This program will be held in the beautiful tourist township of Puducherry, East coast of South India and will be hosted by Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), an Institution of National Importance under the Ministry of Health and Family welfare, Government of India. We cordially invite you to get enrolled for the programme.

Host Institute: Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry (JIPMER - <https://jipmer.edu.in>) under Government of India is one of the leading Medical Institutions in India. Spread over a sprawling 192 acre campus in an urban locale of Puducherry (formerly Pondicherry), JIPMER is 160 kms by road from Chennai. JIPMER has been declared as an Institution of National Importance by Parliamentary Act. JIPMER imparts Undergraduate (UG), Postgraduate (PG) and Super specialty Medical Training. Fellowship courses, MSc courses and full time PhD programmes are available in different disciplines. JIPMER aims to provide high quality learning and research environment.

Department of Biostatistics: An independent full-fledged Department of Medical Biometrics and Informatics was established in the Institute in the year 2011. The department has been renamed as Department of Biostatistics (<https://jipmer.edu.in/department/biostatistics/general-info>) in the year 2018. The department have been actively involved in teaching Research Methodology, Biostatistics and Demography to all Undergraduates; Postgraduate Medical & Paramedical students. Regular statistical consultations and guidance are provided to the postgraduate residents and students, faculty members, PhD scholars and staff in various departments of the institute. The department is conducting MSc. Course and Doctoral Programme in Biostatistics. The department is also conducting regular training programs in Research Methodology and Biostatistics for the faculty, residents, research scholars and students.

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- Mr. C. Prakash, I MSc Student
- Ms. S. Saleth Jenifer, I MSc Student
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Preamble

JIPMER being an institute of national importance seeks in its vision to be a model for health systems in India through innovations in education, patient-oriented research, population health and service excellence. Our academic community aims to be the leaders in original research in basic sciences and patient oriented discoveries. Aiming to achieve this goal, we started the JIPMER Research Leadership Mentoring Programme (JRLMP) in JIPMER.

This programme is conceived as a group mentoring initiative with contact programme in two phases.

Vision

To be the best in mentoring health science and medical research

Mission

To develop an excellent programme to mentor health science faculty into medical research

Objectives

- ✓ To generate a well-trained group of researchers to lead basic and applied research in health sciences at National and International level.
- ✓ To generate a pool of future health science research mentors.

Long term deliverable

In long term, these investments anticipate to deliver a very competent group of researchers to lead next generation research and obtain extramural grants. Through this programme, we also aim to create a National nodal centre for mentoring researchers in basic and applied health science research.

Duration of the programme

The programme will be conducted in two phases with 5 days in each phase and admission is open to any faculty members or Scientist working in Medical Institutes/ Medical Colleges/ Dental Colleges and any other Medical Research Institutions in the country.

Mode of the conduct: Offline

Training Programme Structure

As part of mentoring, mentees will be exposed to training on specific topics common in health science research. The training programme consists of lectures, demonstrations, group activities, discussions, case studies, panel discussions with additional assignments and online reading materials.

The whole programme is divided into modules and there will be 7 modules covering basic and advanced biostatistics, research designs, research methods and concept of Evidence based medicine. All modules are interconnected and it is mandatory that all participants to attend all modules. We also make sure the involvement of stakeholders of research capacity building and research outcome beneficiaries in the research priority setting, design and implementation of the programme. The programme will be delivered by a group of very fine faculty members drawn from within and outside the institute.

Training Modules

Module 1. Introduction and concept of Medical Research, Research Designs

- Research Methodology and Research Methods
- Design and conduct of Observational studies
- Design and conduct of Interventional trials
- Formulation of Research Question, Objectives and Hypothesis
- Randomization techniques and Blinding methods
- Multicentric studies and its management

Module 2. Basic Biostatistics, Sampling methods, Sample size estimation & introduction to statistical packages

- Types of Variables in research and Data
- Data summarization methods
- Statistical measure appropriate for different types of studies and data

- Different sampling methods in clinical research and its uses
- Sample size estimation for different design in clinical research – Observational (Descriptive and Analytical) and Interventional Trials
- Sample size estimation - Demonstration and Hands on with statistical packages

Module 3. Research funding opportunities, funding guidelines and preparation of proposal

- Extramural funding opportunities
- Funding guidelines
- Preparation of proposals for extramural grants – Do's and Don'ts
- Critical points in technical assessment of proposals

Module 4. Salient features in conduct of research, data base preparation and database management, quality control and intermediate Biostatistics

- DSMB – Its constitutions and functions
- Data cleaning and coding
- Univariate and Bivariate analysis related to different study designs and data types
- Novel intervention designs

Module 5. Advanced Biostatistics including data analysis using various statistical packages

- Various Regression Analysis – Linear, Multiple and Logistic regression
- Survival Analysis
- Estimating and Comparison of Diagnostic and Prognostic test accuracy
- Measure of Agreement on categorical and quantitative outcomes
- Design and statistical approach to Confounding and Interaction
- Analysis of correlated categorical data
- Further analysis on intervention trials – Per protocol, ITT, mITT, NNT, NNH

Module 6. Preparation of Research report and Journal publication

- Preparation of Technical Report
- Preparation of Popular Report
- Preparation of Manuscripts for Publications

Module 7. Methods for Medical Evidence Synthesis

- Introduction to Narrative Review
- Introduction to Systematic Review
- Introduction to Meta Analysis

In essence it is an ALL in ONE Research Methodology and Biostatistics

Mentoring Programme

Schedule

Duration of contact programme – Two phases and 5 days in each Phase

21st to 25th OCTOBER - 2024 (Phase-I)

20th to 24th JANUARY - 2025 (Phase-II)

It is mandatory that the participants should attend ALL THE MODULES IN BOTH PHASES

Who Can Apply: Faculty Members or Scientist working in Medical Colleges/ Dental Colleges and any other Medical Research Institutions in the country.

Registration: Aspiring participants are requested to fill-up the Google form and submit on or before 25-09-2024. The total number of registration/ participants for this program is restricted to 25 only.

Registration Google Form Link: <https://forms.gle/SJMqhXzZMR7h7Xpi9>

Mode of selection: The Participants for the programme will be selected purely on First Come First Serve Basis. The selected participants will be informed and the payment of the course fee has to be made only after the receipt of the selection.

Last Date for Submitting the Registration form is **25-09-2024**

Course fee: The total cost (for both phases together) of the programme will be Rs.16000/-. The participants are expected to pay the fees through online.

(Internal participants (faculty members from JIPMER) will get a concession of 25% in the course fee and they have to pay Rs.12000/- only as course fee)

Mode of Payment: The participants are required to pay registration fee through online after the receipt of the selection. The bank details to pay the registration fee will be informed to the selected participants.

(For any queries related to the Program and Registration, please contact the Programme Secretariat / Chief Coordinator)

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