

# INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES

DEEMED TO BE UNIVERSITY

(AN AUTONOMOUS ORGANIZATION OF MINISTRY OF HEALTH AND FAMILY WELFARE,  
GOVERNMENT OF INDIA)



MASTER OF  
SCIENCE IN  
BIOSTATISTICS  
AND  
DEMOGRAPHY

INTERNSHIP  
BROCHURE  
2025-2026

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International Institute for Population Sciences, Mumbai  
65th & 66th Convocation  
28 May, 2025



## ABOUT IIPS

The International Institute for Population Sciences (IIPS), Mumbai, formerly known as the Demographic Training and Research Centre (DTRC) till 1970, was established in July 1956 under the joint sponsorship of Sir Dorabji Tata Trust, the Government of India and the United Nations. It serves as a regional center for Training and Research in Population Studies for the ESCAP region.

The Institute is under the administrative control of the Ministry of Health and Family Welfare, Government of India. Besides teaching and research, the institute also provides consultancy to the government and Non-Government organizations and other academic institutions. During the past 53 years, students from 42 different countries of Asia and the Pacific region, Africa and North America have been trained at the Institute.

Institute had conducted many prime surveys like National Family Health Survey (**NFHS**), District Level Household Survey (**DLHS**), Global Youth Tobacco Survey (**GYTS India Project**), Global Adult Tobacco Survey(**GATS**), The World Health Organisation's study on global Ageing and adult health (**SAGE**), **R4D India**: Inclusive Social Protection for Chronic Health Problems, Youth in India study, **SWABHIMAAN** Project, Maternal and Newborn Health (**MNH**) Exemplars India Study, Longitudinal Survey of Maternal and Infant Nutrition in Maharashtra (**LoSMINM**) and Longitudinal Aging Study in India (**LASI**).



## Director's Message

I'm delighted to introduce the International Institute for Population Sciences (IIPS) in Mumbai, an institution with a rich history dating back to 1956. IIPS has earned the status of a Deemed University due to its significant contributions to demographic and health research, teaching, and training. The institute excels in combining cutting-edge research with effective teaching, thanks to its accomplished and diverse faculty members.

Our students are well-prepared to work with extensive datasets, employ advanced quantitative and qualitative techniques, and interpret their findings to support improved policies and program interventions. They particularly shine in the fields of Population Sciences and Biostatistics. Through collaborations with international organizations like UNICEF, UNFPA, WHO, and prestigious universities worldwide, we offer our students exposure to the latest developments in population and health research.

I extend a warm invitation for you to visit our campus and engage with our students, who not only possess valuable skills, knowledge, and diverse field experience but have also embraced the values and ethics of our institution. These principles will guide them to become valuable assets to your esteemed organizations, whether they work on small-scale or large-scale projects, from rural communities to the global stage. They are committed to making a positive impact on society, the environment, the economy, education, and various other fields, all while maintaining a strong sense of compassion and humanity.

**Prof. D.A. Nagdeve (PhD.)**  
**Director (Additional Charge)**  
**[director@iipsindia.ac.in](mailto:director@iipsindia.ac.in)**

# Message from Course Coordinators

We are pleased to present the internship brochure of the Master in Biostatistics and Demography program, highlighting a skilled pool of students prepared for data-driven roles across sectors. The program provides rigorous training in advanced statistics, data modelling, and analytical problem-solving, supported by extensive hands-on experience with STATA, R, Python, and other analytical tools. Students gain strong foundations in both theoretical and applied domains, with exposure to interdisciplinary projects in demography, public health, epidemiology, healthcare analytics, and related fields. This internship initiative offers organisations the opportunity to engage with our highly capable and motivated students who can contribute meaningfully to ongoing projects, research, and analytical tasks. They bring not only technical competence but also the ability to think critically, work collaboratively, and adapt to diverse professional environments.

We invite you to consider our students for internship roles where their analytical strengths, commitment to quality, and passion for data can add clear value to your team. We look forward to building productive partnerships that support your organisational goals while fostering professional growth for our students.



Dr. Manas Ranjan Pradha  
[manas.pradhan@iipsindia.ac.in](mailto:manas.pradhan@iipsindia.ac.in)



Dr. Guru Vasishtha  
[vasishtha@iipsindia.ac.in](mailto:vasishtha@iipsindia.ac.in)

# Message from Placement Coordinators



Prof. Nandita Saikia  
[nanditasaikia@iipsindia.ac.in](mailto:nanditasaikia@iipsindia.ac.in)

It is with great pleasure that I welcome you to explore the talent pool of Master in Biostatistics and Demography Program through this internship brochure. At the forefront of data-driven decision-making, our program equips students with advanced statistical knowledge, practical skills, and analytical tools necessary to excel in diverse industries.

Our students are trained rigorously in both theoretical and applied aspects of statistics, mastering techniques in data modelling and real-world problem-solving.

With exposure to state-of-the-art software like STATA, R, Python, interdisciplinary projects, and expert professors, they are prepared to tackle complex challenges in domains such as demography, population studies, finance, public health, epidemiology, healthcare, technology and beyond. Through this internship initiative, we invite you to engage with dynamic, innovative and highly motivated students who are eager to contribute to your organisation's growth while honing their professional expertise. Our students are not just adept at interpreting data; they are thinkers, collaborators and leaders in the making. I encourage you to leverage this opportunity to collaborate with our students, whose commitment to excellence and passion for data will undoubtedly bring value to your team. We are confident that this partnership will be mutually enriching and foster long-term professional relationships.



Prof. Abhishek Singh  
[abhishek@iipsindia.ac.in](mailto:abhishek@iipsindia.ac.in)

# COURSE DETAILS

This two-year (full-time) Master's degree course is designed to provide a high level of understanding in Bio-statistics and Demography including an in-depth knowledge of the linkages between statistics and various socio-economic, health, and environmental factors.

This course provides a foundation for graduate students and prepares them to apply the concept of biostatistics in various aspects related to population. Students are given knowledge on various aspects of Demography, Socioeconomics, and Health for better knowledge of governance and policymaking.

The students of this course are provided with rigorous hands-on training on different statistical and analytical software such as STATA, R programming, Python, SAS, SPSS, GIS, GeoDa, MORTPAK, Spectrum, and NVIVO. This program requires the successful completion of 24 main papers in the area of Biostatistics, Population Studies and Demography, optional papers, and a dissertation. Students are also trained in Research Methodology, which involves completing a project involving fieldwork.



# COURSE STRUCTURE

## OUR COURSE STRUCTURE

### CORE COURSES :

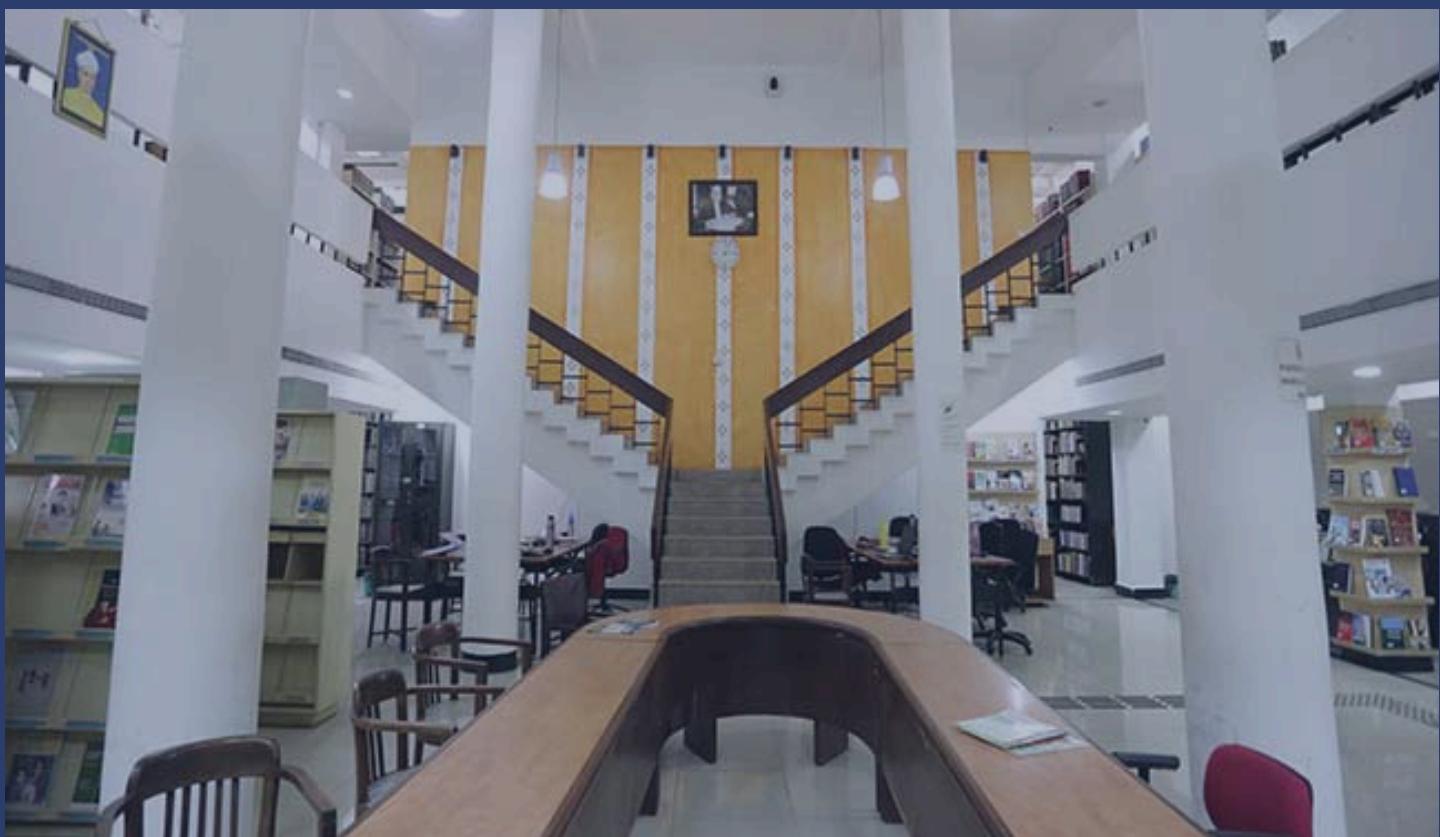
- Introduction to Demography and History of Population
- Basic Demographic Methods
- Methods in Biostatistics I
- Sample Survey Designs
- Research Methods in Epidemiology and Biostatistics
- Advanced Demographic Methods
- Introduction to Demographic Packages
- Advanced Methods in Biostatistics
- Survival Analysis
- Data Management and Analysis in SAS
- Demographic Models and Indirect Methods of Estimation
- Methods in Clinical Trials

### FOUNDATIONAL COURSES :

- Basics of Human Biology
- Social Science Concepts

### ELECTIVES :

- Data Analysis with R and Python
- Data Analysis with STATA
- Introduction to Longitudinal Data Analysis
- Introduction to Spatial Statistics
- Systematic Review and Application of Meta-Analysis
- Large-scale Sample Surveys
- Concepts and Measures of Global Health
- Big Data using Machine Learning
- Health Economics and Financing
- Population Ageing and Health Transition
- Population, Environment and Sustainable Development
- Gender, Health, and Development
- Operations Research in Population and Health
- Monitoring and Evaluation in Population and Health
- Urbanization, Space, and Planning



# WHY US?

**01**

Acquainted with analytical skills on handling of complex biological and demographic data with statistical rigor.

**02**

Students possess a comprehensive understanding of biostatistics, epidemiology and public health .

**03**

Proficiency in real world application of qualitative and quantitative research techniques.

**04**

Students have meta analysis competence which ensure a comprehensive and evidence based approach to research.

**05**

Competency in handling extensive datasets including Census, NFHS, NSSO, etc.

**06**

Professional training in essential software tools: R, PYTHON, STATA, SPSS, SAS, GIS, and more.

# STUDENT'S DETAILS



## Aditya Niwas Tribhuwan



**Email ID:** adityatribhuwan45@gmail.com

**Education:** B.Sc. in Statistics, Fergusson college Pune

**Past Experience:** Fresher

**Skill:** R, C, Python, MS Excel, Stata,

**Area of interest:** Bioinformatics, Biokinetics, Biostatistics, Clinical Trials, Data Analysis.

## Aishee Mondal



**Email ID:** aisheem1523@gmail.com

**Education:** B.Sc. in Statistics (Hons.), University of Calcutta

**Past Experience:** Fresher

**Skill:** R, C, C++, Microsoft office, STATA

**Area of interest:** Demography, Public Health , Biostatistics



## Aneesha Satapathy



**Email ID:** aneeshasatapathy8020@gmail.com

**Education:** B.Sc. in Statistics (Hons.), Utkal university

**Past Experience:** Fresher

**Skill:** R, STATA , C, Python

**Area of interest:** Bio-Statistics, Business Analysis



## Anindita Chakraborty



**Email ID:** aninditachakraborty983@gmail.com

**Education:** B.Sc. in Statistics (Hons.), University of Calcutta

**Past Experience:** Field survey (Creative Satta, Oct 2023)

**Skill:** R, MS Excel, STATA, Python, MYSQL, Data Analysis

**Area of interest:** Biostatistics, Public health analytics, Clinical Data analysis, Development Sector



## Anubhav Gangwar



**Email ID:** anubhavgangwar076@gmail.com

**Education:** B.Sc. in statistics from Mahatama Jyotiba phule Rohilkhand university and B.Ed

**Past Experience:** Fresher

**Skill:** Python, R, MS Excel, STATA, Gen AI

**Area of interest:** Data Analysis, Biostatistics, Clinical Trials  
Demographic Research, Public health



## Ashutosh Kumar Pandey



**Email ID:** ashupandey28112002ak@gmail.com

**Education:** BSc in Statistics (Hons.), BHU

**Past Experience:** Apprenticeship in IMS BHU

**Skill:** Data analysis by using R, Python, MS Excel, STATA, Gen. AI, My SQL,

**Area of interest:** Data Analysis, Survival Analysis, Public health analytics, Development Sector, Clinical trial analysis,

## Ayushi Singh



**Email ID:** ayushisingh2722@gmail.com

**Education:** BSc in Statistics (Hons.), BHU

**Past Experience:** Fresher

**Skill:** STATA, Python, R, MS Word, MS Excel

**Area of interest:** Biostatistics, Public Health, Demography, Clinical Trial, Data Analysis, Epidemiology



## Eman Dutta



**Email ID:** emandutta05@gmail.com

**Education:** B.Sc. in Statistics (Hons.), University of Calcutta

**Past Experience:** Proofreader and editor (Before Machine Learning Vol. 3, Now Machine Learning Vol.1 - Jorge Basil)

**Skills:** R, STATA, Python, MS Excel, LaTex

**Area of interest:** Biostatistics, RWE, M&E, Statistical Consultancy

## Hrithesh Das



**Email ID:** hriteshdas6@gmail.com

**Education:** B.Sc. in Statistics, Ramkrishna Mission Residential College

**Past Experience:** Fresher

**Skills:** R, STATA, Python(Pandas), C, MS Excel

**Area of interest:** Population Health, Survey Data Analysis, Machine Learning in Health, Demographic Modelling, Sports Statistics, AI using Language



## Jasir U



**Email ID:** jasiru9@gmail.com

**Education:** B.Sc. in Statistics, Madras Christian College

**Past Experience:** Biostatistics Intern(ICMR-NIE),Research Intern(IIMAD)

**Skills:** Python, R, Stata, Spss, MS Excel

**Area of interest:** Biostatistics, Clinical trials, Public health, Epidemiology, Bioinformatics

## Liton Bhattacharjee



**Email ID:** litonbhattacharjee826@gmail.com

**Education:** Bsc. Statistics (Hons.) , University of Calcutta

**Past Experience:** Summer Internship at ISI Kolkata

**Skills:** R,Python, C, Stata, MS Excel, LaTex ,Data analysis

**Area of interest:** Biostatistics, Data Analyst, Data Scientist, Public Health, Epidemiology



## Mayank Sharma



**Email ID:** sharma.mayank.1008@gmail.com

**Education:** B.Sc. in Computer Science (Hons.) BHU And Post Graduate Diploma in Statistical Methods and Analysis (ISI)

**Past Experience:** Fresher

**Skills:** STATA, R, MS Excel, SQL, Minitab, Python, Machine Learning

**Area of interest:** Data Analyst, Data Scientist, Biostatistics, Public Health, Machine Learning, Development Sector

## Nehal Alam



**Email ID:** mahtabkhan6870002@gmail.com

**Education:** B.Sc. in Statistics (Hons.), Patna University

**Past Experience:** Fresher

**Skills:** MS Excel, MS Word, R, C, C++, STATA, ADCA

**Area of interest:** Biostatistics, Demography, Public Health



## Nikhil Kumar



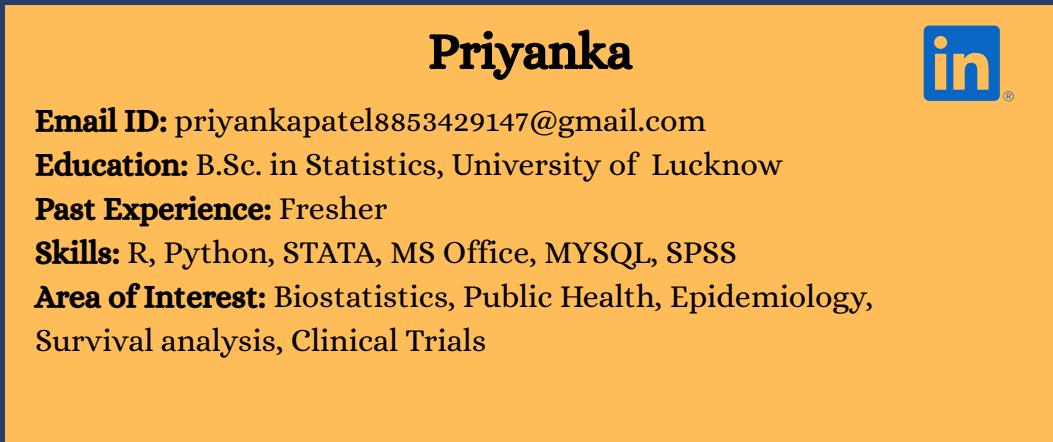
**Email ID:** o3nikhilphotos@gmail.com

**Education:** B.Sc. in Statistics, Central University of Rajasthan

**Past Experience:** Fresher

**Skills:** R, Python, STATA, MS Excel, SQL, SPSS

**Area of Interest:** Biostatistics, Clinical Trials, Epidemiology, Public Health Research, Survival Analysis



## Priyanka



**Email ID:** priyankapatel8853429147@gmail.com

**Education:** B.Sc. in Statistics, University of Lucknow

**Past Experience:** Fresher

**Skills:** R, Python, STATA, MS Office, MYSQL, SPSS

**Area of Interest:** Biostatistics, Public Health, Epidemiology, Survival analysis, Clinical Trials



## Satyam Ojha



**Email ID:** satyamojha2003@gmail.com

**Education:** B.Sc. in Statistics, University of Allahabad

**Past Experience:** Fresher

**Skills:** MS Word, MS Excel, STATA, R

**Area of Interest:** Biostatistics, Demography, Public Health

## Sneha Das



**Email ID:** 19sdas04@gmail.com

**Education:** B.Sc. in Statistics (Hons.), Presidency University

**Past Experience:** Psychometric Research Assistant at RPRIT (August-December,2025)

**Skills:** C, R, SPSS, STATA, SAS, Jamovi

**Area of Interest:** Biostatistics, Public Health, Epidemiology, Causality, Psychometric Analysis, Clinical Trials



## Soham Ghosh



**Email ID:** sohamghosh526@gmail.com

**Education:** B.Sc. in Statistics (Hons.), University of Calcutta

**Past Experience:** Freshers

**Skills:** Python, STATA, MS Excel, R

**Area of Interest:** Public Health, Biostatistics, Data Analysis

## Swaraj



**Email ID:** swarajsah21@gmail.com

**Education:** B.A in Statistics (Hons.), BHU

**Past Experience:** Freshers

**Skills:** R, STATA, Python, MS Excel, MySQL, Gen AI

**Area of Interest:** Data analytics, Survival Analytics, Clinical Trial analytics, Public Health , Development Sector



# HOW TO REACH US?

## OUR PLACEMENT REPRESENTATIVES:



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Liton Bhattacharjee  
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## PLACEMENT CELL DETAILS:

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**Website:** [www.iipsindia.ac.in](http://www.iipsindia.ac.in)