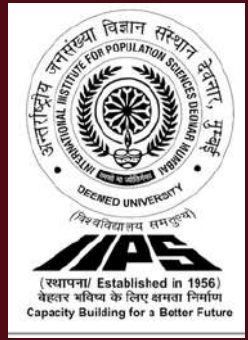


INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES

DEEMED TO BE UNIVERSITY

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



2024-2025

MASTER OF
SCIENCE IN
BIOSTATISTICS
AND DEMOGRAPHY

**INTERNSHIP
BROCHURE**

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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.

**Best Wishes ,
Prof. H Lhungdim (Ph.D.)
Director (Additional Charge)**

Message from Course Coordinators

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. NANDITA SAIKIA



DR. GURU VASISHTHA

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 policy-making.

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

CORE FOUNDATION ELECTIVE

- 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

- 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

- Basics of Human Biology
- Social Science Concepts

MANDATORY SUBJECTS



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



ABDUL WARIS.C

E-MAIL: mrwwari@gmail.com

EDUCATION: B.Sc Mathematics

KEY SKILLS: R, Python, MS Office, Critical Thinking and Problem Solving.

AREA OF INTEREST: Biostatistics, Clinical Research, Data analytics, Public Health, Development Sector.

AHANA MUKHERJEE

E-MAIL: ahana.032402@iipsindia.ac.in

EDUCATION: B.Sc Statistics(Hons.)

KEY SKILLS: Data Analysis with Excel, Stata, SPSS, R, Python, Ethical Sensitivity, Adaptability & Flexibility.

AREA OF INTEREST: Data Analytics, Demography, Biostatistics, Clinical Trials.



AKSHAY KUMAR DEKA

E-MAIL: akshaydekareal@gmail.com

EDUCATION: B.Sc Statistics

KEY SKILLS: R, Python, SPSS, Team Management, Problem-Solving, Critical Thinking

AREA OF INTEREST: Public Health, Data Science, Health Sector, Pharmaceuticals, Government & Policy, Think Tanks.

ANSHU PRIYA

EMAIL: priyanshsinghjnv@gmail.com

EDUCATION: B.Sc (Statistics)

KEY SKILLS: R, C, Python, Stata, Project Management, Ethical Awareness, Collaboration & Teamwork

AREA OF INTEREST: Data Analytics & Biostatistics, Epidemiology, Clinic Trials, Public Health, Demography, Clinical Data Management, Statistical Analysis.



ASHUTOSH TIWARI

E-MAIL: ashutoshtiwari0919@gmail.com

EDUCATION: B.A. (Mathematics, Statistics & Geography)

KEY SKILLS: Microsoft Excel, R, STATA, Communication, Teamwork, Problem Solving, Adaptability, Time Management.

AREA OF INTEREST: Public Health Organizations, Pharmaceutical and Biotechnology Companies, International Organizations and NGOs.



BANKAR BHAIRAVI VIJAY

E-mail: bhairavibankar948@gmail.com

Education: BSc. in Computer Sc., Statistics & Mathematics

Key skills: C++, Java, R and Python, Teamwork, Adaptability and Problem solving.

Area of Interest: Epidemiology, Data science and Pharmaceuticals.



DEBARATI DAS

E-MAIL: debaratid2020@gmail.com

EDUCATION: B.Sc Statistics (Hons.)

SKILLS: R, C, Stata, MS Excel and PowerPoint, Work Adaptability.

AREA OF INTEREST: Data Analytics for Health Tech, Public Health Research, Pharmaceutical & Clinical Research.



HARSH YADAV

E-MAIL: yadavharsh1308@gmail.com

EDUCATION: BSc. statistics

KEY SKILLS: MS Excel, MS Word, PowerPoint, R Programming, Python, STATA, Critical Thinking, Teamwork, Multi Tasking.

AREA OF INTEREST: Public Health and Policy Research, Mental Health and Behavioral Epidemiology, Population Health and Aging Studies, Epidemiology, Clinical Trials & Research.



HARSHITA KUMARI

E-MAIL: harshitagupta0706@gmail.com

EDUCATION: B.Sc statistics(Hons.)

KEY SKILLS: MS Excel, MS Word, PowerPoint, C, R, Python, STATA, SAS, MINITAB, interpersonal skills, Teamwork.

AREA OF INTEREST: Biostatistics, Public Health, Clinical Trials, Survey and Data Analysis, Statistical Modelling, Quantitative Research, Policy Analysis, Health Economics.



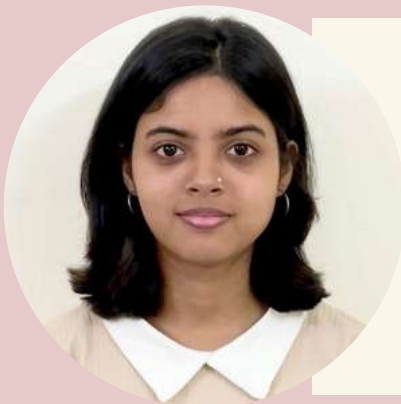
NEELOO BHARTI

E-MAIL: neeloo.3490@gmail.com

EDUCATION: B.Sc Statistics

KEY SKILLS: Microsoft Office, R programming, Python, SPSS, SQL, Problem solving & Analytical Skills, Multi-disciplinary Knowledge.

AREA OF INTEREST: Clinical Epidemiology, Biostatistics, Quantitative Epigenetics, Stochastic Processes, Meta Analysis, Causal Analysis.



PRAGYA TRIPATHI

E-MAIL: pragyatri2002@gmail.com

EDUCATION: B.Sc Statistics

KEY SKILLS: MS Excel, MS Powerpoint, STATA, R programming, Python, Problem-Solving, Critical Thinking, Teamwork

AREA OF INTEREST: Public Health, Epidemiology , Data Analytics and Biostatistics, Clinical Trials & Research, Mental Health and Behavioral.



PRAJJWAL KUMAR

E-MAIL: prajjwalkumar3003@gmail.com

EDUCATION: B.Sc Statistics(Hons.)

KEY SKILLS: C Programming, Python, R, Stata, SQL, Git Hub, Critical Thinking, Time Management, Typing

AREA OF INTEREST: Health Sector & Relief.



PRAKHAR SHUKLA

E-MAIL: prakhar.032414@iipsindia.ac.in

EDUCATION: B.Sc in Computer Sc. & Statistics

KEY SKILLS: MS Word, MS Excel, MS PowerPoint, C/C++, HTML, CSS, Python, R, Public Speaking, Leadership.

AREA OF INTEREST: Public Health, Data Analysis, Population Research, Research and Development.



RAHUL NATH

E-MAIL: nathrahul911@gmail.com

EDUCATION: B.Sc Statistics(Hons)

KEY SKILLS: C, Minitab, R, Stata, Python, LaTeX, MS Excel, MS Word, MS PowerPoint, HTML, Prompt Engineering, Team Management.

AREA OF INTEREST: Quantitative Finance, Data science, AI development, Prompt Engineering, Research Assistant.



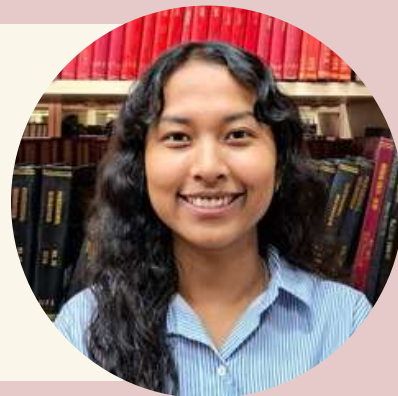
SOMEDA KHWAIRAKPAM

E-MAIL: somedakhwairakpam@gmail.com

EDUCATION: B.Sc (Statistics)

KEY SKILLS: SPSS, STATA, C, R, MS EXCEL, Leadership, Team Work, Communication, Management, Critical Thinking.

AREA OF INTEREST: Biostatistics, Data Analysis, Actuarial Statistics, Clinical Trials, Demography, Survival Analysis.



SRIKANTA SAHA

E-MAIL: srikanta.032417@iipsindia.ac.in

EDUCATION: B.Sc Statistics

KEY SKILLS: R, Stata, Data Collection, Data Cleaning, Data Analysis

AREA OF INTEREST: Medical Research, Institute Research, Pharmaceutical Company, NGOs.



SUDIPTA DAS

E-MAIL: ar2310@isical.ac.in

EDUCATION: Post Graduate Diploma in Agricultural and Rural Development With Statistical Methods and Analytics.

KEY SKILLS: R, Python, SQL, Excel, Hands on Experience in PRA & Ethnographic Study.

AREA OF INTEREST: Health and Data Analysis.



TANMAY KUMAR BEHERA

E-MAIL: kumartanmaybehera2003@gmail.com

EDUCATION: B.A Statistics

KEY SKILLS: C, R, Python, Team work, Problem Solving, Time Management

AREA OF INTEREST: Government Agencies, Public Health Organisation, Pharmaceutical, Data Science,



VARTHA KIRAN KESHAV

E-MAIL: kiranvartha2001@gmail.com

EDUCATION: BSc. Statistics

KEY SKILLS: R, Python, Excel, Data Entry, Data Analysis

AREA OF INTEREST: Social Field Analysis, Sustainable Development.



YOGESH APPAYYA RAJGOLKAR

E-MAIL: yogeshrajgolkar369@gmail.com

EDUCATION: B.Sc Mathematics

KEY SKILLS: Python, R, Presentation, Problem Solving Skills.

AREA OF INTEREST: Biostatistics, Clinical Research, Public Health, Demography.



VIKASH KUMAR GUPTA

E-MAIL: vikashiipsmumbai@gmail.com

EDUCATION: B.Sc Statistics(Hons.)

KEY SKILLS: MS Office, STATA, R, Python, Leadership Skills.

AREA OF INTEREST: Health Demography, Migration & Development Sector, Demographic Research, Data Analysis, Biostatistics, Field Work.



RAVI KUMAR

E-MAIL: kr.ravi1310@gmail.com

EDUCATION: B.Sc Statistics

KEY SKILLS: R, Python, MS Word, MS Excel, MS Power Point, Public Speaking, Presentation, Leadership.

AREA OF INTEREST: Public Health, World Health, Epidemiology, Biostatistics, Demography.



PIYUSH SINGH JODHA

E-MAIL: psjodhana2001@gmail.com

EDUCATION: B.Sc (Mathematics, Chemistry, Physics)

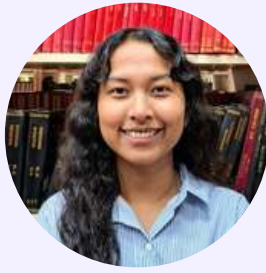
KEY SKILLS: R, Python, MS Excel, MS Word, Power Point, Team Work, Critical Thinking, Leadership

AREA OF INTEREST: Public Health, Epidemiology, Pharmaceuticals, Biostatistics & Data Analysis, Demography.



HOW TO REACH US?

Student Placement Representatives :



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Ashutosh Tiwari

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Phone No.: 8595290055



Neeloo Bharti

Email: neeloo.3490@gmail.com

Phone No.: 8102594806



Piyush Singh Jodha

Email: psjodhana2001@gmail.com

Phone No.: 8107527354

Placement/ Communication officer

Mrs. Nalini Ayyalasomayajula : placementcell@iipsindia.ac.in,
placementcell.iipsmumbai@gmail.com

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Contact: www.linkedin.com/in/placement-cell-iips

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Placement Cell Co-ordinators



Dr. T.R. Dilip

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Dr. Manas R. Pradhan

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