

INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES

DEEMED UNIVERSITY

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



(स्थापना / Established in 1956)
बेहतर भविष्य के लिए क्षमता निर्माण
Capacity Building for a Better Future



INTERNSHIP BROCHURE

MASTER OF SCIENCE IN SURVEY RESEARCH
AND DATA ANALYTICS

2024- 2025

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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. IIPS holds a unique position among all the regional population centers. It was the first such center started, and it serves a much larger population than any of the other regional centers. The Institute is under the administrative control of the Ministry of Health and Family Welfare, Government of India. Institute had conducted many prime surveys like National Family Health Survey (NFHS), District Level Household Survey (DLHS), Assessment of National Rural Health Mission (NRHM), YOUTH in India Project, Global Youth Tobacco Survey (GYTS India Project), South Asia Centre for Labour Mobility and Migrants (SALAM), The World Health Organisation's Study on global Ageing and adult health (SAGE), R4D India: Inclusive Social Protection for Chronic Health Problems, SWABHIMAAN Project, GENDER (Gender Equity and Demography Research) 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 am 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. We believe these skills will be sharpened at this analytics and research oriented course. 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.

Dr. H. LHUNGDIM
DIRECTOR (Additional Charge)

MESSAGE FROM THE COURSE COORDINATORS



Dr. LAXMIKANT DWIVEDI
Professor and Head



Dr. PREETI DHILLON
Assistant Professor

Warm greetings from the International Institute for Population Sciences (IIPS), Mumbai! We are pleased to introduce the first batch (2024–26) of the MSc program in Survey Research & Data Analytics. This two-year multidisciplinary program equips students with a strong foundation in Mathematics, Statistics, and Computer Science, transforming this knowledge into advanced data science with a focus on survey research and data analytics.

Our students gain hands-on experience with tools like STATA, Python, R, MS Power BI, GIS, NVIVO, and others, alongside a deep understanding of large-scale surveys, demographic techniques, and advanced analytics including AI and machine learning. The curriculum also covers key topics such as data collection methods, sampling, visualization, predictive modeling, program monitoring, and health and social data analysis, with a strong emphasis on ethics and publication in survey research.

IIPS's extensive experience in large-scale surveys provides students with valuable insights into real-world data challenges. This diverse group of students, trained in both technical skills and survey research methodologies, is well-prepared for roles in national and international organizations, tackling complex data problems and informing policy decisions.

We invite you to connect with this dynamic cohort and explore potential collaboration opportunities.

COURSE DETAILS

Master of Science in Survey Research and Data Analytics

The M.Sc. in Survey Research and Data Analytics at the International Institute for Population Sciences (IIPS), Mumbai, is a specialized program designed to equip students with robust skills in data collection, survey methodology, and statistical analysis. This interdisciplinary program focuses on both theoretical and applied aspects of survey research, preparing graduates to address complex social and population-based issues. Core areas include sampling methods, data analysis, questionnaire design, and computational techniques, alongside the use of advanced software tools for data handling. By integrating real-world applications and research projects, students gain practical experience in analyzing and interpreting data relevant to public policy, health, and social sciences. This program aims to develop proficient data analysts and researchers ready to contribute to academic, governmental, and corporate sectors where data-driven decision-making is essential.



COURSE STRUCTURE

Core

- *Mathematics and Computing- A refresher*
- *Statistical-Approaches and Avenues*
- *Acquainting with data: Surveys and Sources*
- *Sampling Methods-Basics*
- *Ways and Means of Data Collection*
- *Data Visualization with Software*
- *Sampling Methods-Advance*
- *Data Quality Assessment and Management*
- *Programming for Data Analytics in Python*
- *Predictive Analytics: Theory and Practice*
- *Research, Ethics, and Publications*
- *Artificial Intelligence and Machine Learning Applications*
- *Program Monitoring, and Evaluation Design*
- *Analysis of Complex Survey and Estimation*
- *Field Work*
- *Applied Multivariate Analysis*
- *Projections and Forecasting*
- *Dissertation*

Elective

- *Programming with R*
- *Analysis in STATA*
- *Introduction to Longitudinal Data Analysis*
- *Methods of Decomposition*
- *Health Systems, and Policies*
- *Urbanization, Space and Planning*
- *Concepts and Measures of Global Health*
- *Health Economics and Financing*
- *Demographic Models and Indirect Estimations*
- *Population Ageing and Generational Analysis*
- *Population, Environment and Sustainable Development*
- *Gender Analytics and Reproductive Health*
- *Spatial Analytics*
- *Bayesian and Small area estimation Methods*

Foundation

- *Understanding Demography*
- *Social Sciences-A Primer*

Why us ?

SOFTWARES AND TOOLS

Proficient in leveraging industry-standard tools to deliver efficient and innovative solutions.

ADVANCED DATA ANALYSIS

Skilled in advanced techniques to derive actionable insights and drive data-driven decisions.

SURVEY METHODOLOGY EXPERTISE

Specialized in designing and implementing robust survey methodologies for reliable and accurate data collection.

EXPERTISE IN SURVEY DESIGN

Skilled in crafting effective surveys to capture precise and actionable data.

MARKET RESEARCH SKILLS

Adept at analyzing market trends and consumer behavior to deliver strategic insights.

POLICY AND SOCIAL RESEARCH INSIGHTS

Proficient in analyzing policies and social dynamics to provide impactful insights for informed decision-making.

STUDENT'S PROFILE

Adnan Khan

Email : adnan0589123a@gmail.com

LinkedIn : [@adnankhan](#)



EDUCATIONAL QUALIFICATION : BSC in Mathematics, Statistics and Computer Science

COLLEGE/UNIVERSITY : Bundelkhand University

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Business Analysis, Machine Learning, Public Policy

SKILLS : Excel, Stata, Python(Basics)

Aiswarya Lakshmi P R

Email : aiswarya2232@gmail.com

LinkedIn : [@aiswaryalakshmi](#)



EDUCATIONAL QUALIFICATION : BSc in Mathematics, Physics and Statistics

COLLEGE/UNIVERSITY : Indira Gandhi National Tribal University, M.P.

PREVIOUS EXPERIENCE : Fresher

FIELDS OF INTEREST : Machine Learning, Deep Learning, Data Analysis, Data Visualisation and Manipulation.

SKILLS : Programming in R, Python; Analysis in ATLAS.ti, Stata; Communicative Skills

Bina Oraon

Email : binaoraon@gmail.com

LinkedIn : [@binaoraon](#)



EDUCATIONAL QUALIFICATION : BSc. Mathematics

COLLEGE/UNIVERSITY : Presidency University, Kolkata

PREVIOUS EXPERIENCE : Govt. Employee

FIELD OF INTEREST : Data analysis, Regression analysis, Finance

SKILLS : Regression Analysis, Data Analysis, R Hypothesis Testing

Bipul Roy

Email : bipulroy2722@gmail.com

LinkedIn : [@bipulroy](#)

EDUCATIONAL QUALIFICATION : B.Sc. IT (Information Technology)

**COLLEGE/UNIVERSITY : Uttranchal College of Science & Technology, HNB
Garhwal University, Srinagar**

PREVIOUS EXPERIENCE : Freelancing

FIELD OF INTEREST : Research and Data Analytics

**SKILLS : Sales Strategy & Growth, Graphic Design & Branding
Web Development & Web Management, Data Analysis
& Interpretation, Data Extraction & Processing Tools-
Stata, Power BI, CPro, Excel**



Debadittya Ganguly

Email : debadittya.ganguly922@gmail.com

LinkedIn : [@debadittya](#)

EDUCATIONAL QUALIFICATION : MSc. Statistics

COLLEGE/UNIVERSITY : Aliah University

**PREVIOUS EXPERIENCE : Subject Matter Expert and Quality Control
Associate (Kunduz Technologies Private Limited)**

**FIELD OF INTEREST : Market Research and Analytics, University Research,
Data Analytics, Investment Banking etc.**

SKILLS : R Programming(Basic), Python(Basic), Stata (Basic)



Deva Dharshini M

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EDUCATIONAL QUALIFICATION : BSc. Statistics

COLLEGE/UNIVERSITY : National College of Science, Tamil Nadu

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis

SKILLS : C, C++, Python, SPSS, Stata



Devana Sree Hari

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EDUCATIONAL QUALIFICATION : B.Tech Computer Science & Engineering
COLLEGE/UNIVERSITY : Vignana Bharati Institute of Technology
PREVIOUS EXPERIENCE : Fresher
FIELD OF INTEREST : Business Analysis, Health
SKILLS : C, C++, Java, Html, CSS, JavaScript, Angular
MS-Excel, Stata, Power-BI

Hari Krishnan P

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EDUCATIONAL QUALIFICATION : BSc (Hon) Statistics
COLLEGE/ UNIVERSITY : Hindu College, Delhi University
PREVIOUS EXPERIENCE : Internship at Logistic Firm
FIELD OF INTEREST : Analytical Field
SKILLS : Programming in R, Python, Stata, PowerBI, ATLAS.ti

Harsha ShyJilin

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EDUCATIONAL QUALIFICATION : BSc. Statistics
COLLEGE/UNIVERSITY : Madras Christian College, Chennai
PREVIOUS EXPERIENCE : Fresher
FIELD OF INTEREST : Data Analysis, Business Analysis, Statistics, Research
SKILLS : Analytical Skills, SPSS, Excel, R Programming,
Python, C, C++, ATLAS.ti, Communication Skills,
Problem Solving Skills,



Heurangdaile Guing

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LinkedIn : @heurangdaillie

EDUCATIONAL QUALIFICATION : BSc. Statistics

COLLEGE/UNIVERSITY : Kohima Science College, Jotosoma, Nagaland

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis

**SKILLS : Excel, MS-Word, R, Power BI, Python (basic),
Communication skills**



Lilly Rose Jose

Email : lillyrosejose@gmail.com

LinkedIn : @lillyrosejose

EDUCATIONAL QUALIFICATION : BSc. Statistics (Minors - Eco, Maths)

COLLEGE/UNIVERSITY : St. Xavier's College, University of Mumbai

PREVIOUS EXPERIENCE : Intern at Cheenta institute as content creator

FIELD OF INTEREST : Research, Data Analysis, Social and Government Statistics

**SKILLS : Stata, R (basic), ATLAS.ti, Python (basic), LaTeX, Power BI,
Anthropac, Qualitative & Quantitative Survey Research,
Strong Communication Skills**



More Rachita Rohit

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LinkedIn : @rachitamore

EDUCATIONAL QUALIFICATION : BSc. Statistics

COLLEGE/UNIVERSITY : Savitribai Phule Pune University

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Research, NGOs, Data Analytics, Business Analytics

SKILLS : MS Excel , MS Word, Stata, R , Python , CSPro

Omisha Vaish

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LinkedIn : @omishavaish



EDUCATIONAL QUALIFICATION : BSc. (Hons) Statistics

COLLEGE/UNIVERSITY : Lady Shri Ram College (LSR), Delhi University

PREVIOUS EXPERIENCE : Summer Intern, (Data Analytics) Risk Management, Macquarie Group

FIELD OF INTEREST : Data Analytics, Machine Learning, Business Analysis, Public Health, Finance, Statistical Research, M&E, Data Science

SKILLS : R Programming, Python, Power BI, SPSS, MS-Excel, MySQL; Strong communication and presentation skills

Girish Patil

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EDUCATIONAL QUALIFICATION : BSc-Statistics

COLLEGE/UNIVERSITY : Pratap College, Alamner

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis, Research, Public Policy

SKILLS : R, Stata, ATLAS ti

Priyanshu Sharma

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EDUCATIONAL QUALIFICATION : B.Sc-(PCM)

COLLEGE/UNIVERSITY : Dr. Bhimrao Ambedkar University, Agra

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Survey Research Methods, Data Analytics, Public Health, Monitoring and Evaluation, Projection and Forecasting using ML, Demographic Techniques, Meta-analysis, Big Data and Metadata Analytics

SKILLS : R Programming for Data Analysis, SQL for Database Management, MS Office Suite (Word, Excel, PowerPoint) Tableau, Stata, Power BI, CSPro

Ramnaresh

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EDUCATIONAL QUALIFICATION : BSc-PCM

COLLEGE/UNIVERSITY : Shekhawati Mahavidyalaya, Pandit Deendayal Upadhyaya
Shekhawati University, Rajasthan

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analytics, Business/Market Analytics, Consultancy

SKILLS : MS Word, Microsoft PowerPoint, Advance Excel, Stata
Anthropac, ATLAS.ti, CSPro, R, Python, Data Analysis and
Interpretation

Ranveer Raj

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EDUCATIONAL QUALIFICATION : BSc. Statistics

COLLEGE/UNIVERSITY : Patna Science College, Patna

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis, Business Analysis, Banking,
M&E, Consultancy

SKILLS : Stata, R programming, Excel, Microsoft
Powerpoint, CSPro, Anthropac

Sana Fathima H M

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EDUCATIONAL QUALIFICATION : BSc(Hons)- Statistics

COLLEGE/UNIVERSITY : Hindu college, University of Delhi

PREVIOUS EXPERIENCE : Worked in Finance Vertical of TedX

FIELD OF INTEREST : Data Analysis, Data Visualisation, Health, Financial Data
Analysis, Operations Analyst, Consultant

SKILLS : Excel, Power BI, SPSS, Stata, C++, R Programming,
Python, Analytical and Problem Solving, Data Management

Senjuti Roy

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EDUCATIONAL QUALIFICATION : BSc. (Hons) Statistics

COLLEGE/UNIVERSITY : Bethune College, Calcutta University

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis

SKILLS : R Programming, Stata, C Programming, Python, MS Office Suite (Word, Excel, PowerPoint), Data Visualization and Statistical Tools, CPro, Qualitative Research, Data Management

Shalini Dehariya

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EDUCATIONAL QUALIFICATION : M.sc - Mathematics

COLLEGE/UNIVERSITY : National Institute of Technology, Calicut

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analytics, Business Analyst, Qualitative and Quantitative Research, Banking Sector

SKILLS : LaTeX, R

Shubham Tiwari

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EDUCATIONAL QUALIFICATION : BSc (Hons) - Statistics

COLLEGE/UNIVERSITY : Banaras Hindu University, Varanasi

PREVIOUS EXPERIENCE : Project Intern, IMS, BHU

FIELD OF INTEREST : Data Analysis, Health Economics, Public Policy M&E, Consultancy and Secondary Research

SKILLS : C, Excel, Stata, Python, ATLAS-ti MS-Word/ Powerpoint, Power BI

Sreya Bhattacharya

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EDUCATIONAL QUALIFICATION : BSc. (Hons) Statistics

COLLEGE/UNIVERSITY : Basanti Devi College (Calcutta University)

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analytics

SKILLS : Stata, R Programming, Excel, Microsoft Powerpoint, Power-BI

Srijani Mondal

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EDUCATIONAL QUALIFICATION : MSc-Statistics

COLLEGE/UNIVERSITY : University of Calcutta

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis, Finance, Regression Models, Time Series

**SKILLS : R(Moderate level), Statistical Modelling, Inferential Statistics
Econometrics, Applying Tools of Biostatistics, Time Series Analysis**

Vrushali Shinde

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EDUCATIONAL QUALIFICATION : BSc-Statistics

COLLEGE/UNIVERSITY : VPM BN Bandodkar, College of Science

PREVIOUS EXPERIENCE : Fresher

FIELD OF INTEREST : Data Analysis, Business Analysis, Research

SKILLS : Python, Stata, Power BI, ATLAS.ti, Data Analysis

HOW TO REACH US?

Student Placement Representatives :



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