

WORKSHOPS & TRAINING PROGRAMMES ORGANIZED

Online Workshop on “Introduction to R: Demographic and Spatial Analysis”

The Short-Term Training Programme & Publications Cell (STTP & PC) of the International Institute for Population Sciences (IIPS) in collaboration with Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany & Federal Institute for Population Research (BiB), Wiesbaden, Germany organised a 5-day online training programme on “**Introduction to R: Demographic and Spatial Analysis**” during April 5-9, 2021 through WebEx video conferencing platform. 50 applicants (25 participants and 25 who audited the R-workshop) from various disciplines across the country participated in the online training programme. The main objective of the training programme was to provide an introduction to the participants regarding performing statistical analyses using ‘R’ program. Beside theory classes, the participants had hands on training using practical problems relating to the current COVID-19 pandemic. The participants were also imparted skills for conducting spatial analyses in R. Spatial analysis methods are of high relevance as researchers often work with geographically referenced data.

The programme was inaugurated by Prof. K. S. James, Director and Senior Professor, who highlighted the significance of the open-source statistical programs like ‘R’, which have become the most important tools for quantitative research.



Dr. Christian Dudel

This training programme provided the participating researchers skills for conducting statistical analysis. Further it also provided them with the requisite exposure to gather & prepare data using the R-software. On the first day of the training, topics like **Introduction to R, its objects & operators, using R Studio, Data wrangling and basic plotting** were discussed with hands on practical exercise. On second day and first half of third day, topics like **Regression**

modelling, for-loops & while functions and demographic methods using the Covid-19 pandemic data were discussed with help of R Studio analytical software. The final two and half days focussed on **learning with practical examples from specific topics on Spatial Demography, spatial analysis and spatial modelling**. These spatial process related topics improved the overall knowledge regarding demographic events as well as enhanced the usefulness, applicability and relevance of statistical models.



Dr. Sebastian Klüsener

Dr. Christian Dudel, MPIDR, Rostock (Germany) and **Dr. Sebastian Klüsener**, BiB, Wiesbaden (Germany) were the resource persons for this workshop. Both attending as well as audit participants were provided with certificates on completion of the training programme.

Coordinators: Prof. Usha Ram, Mr. Babu Santosh Kumar, Dr. P. Murugesan and Mr. Rishabh Gupta.



“Introduction to R: Demographic and Spatial Analysis” Online Workshop

Online Training Programme on Sampling Design for Large Scale Surveys for PRCs

International Institute for Population Sciences (IIPS) conducted a ten-day workshop on Sampling design for Large Scale Surveys during the period from 18th May - 18th June, 2021. The workshop was attended by 80-120 participants from various Population Research Centers (PRC) across India. The PRCs that participated included the Institute of Economic Growth, Delhi, Institute for Social & Economic Change, Bengaluru, Kerala University, Punjab University, Patna University, Gokhale Institute of Politics & Economics, Pune, etc.

It was an extensive training programme wherein several sampling techniques and designs, calculation of sample size, estimation of standard errors and application of survey weights were thoroughly discussed to demonstrate the theoretical and practical application of the topics. Prof. K. S. James, Director of IIPS, inaugurated the workshop and emphasized the importance of learning the survey design and developing skills to conduct surveys by the PRCs. Shri. D. K. Ojha, Deputy Director General (Statistics), Ministry of Health & Family Welfare, Govt. of India, highlighted the importance of skill development and capacity building of the research staff of the PRCs. Dr. L.K. Dwivedi, Dr. P. Dhillon and Prof. S.K. Singh were the resource

persons for this workshop. Different applications were discussed along with demonstration of the methods on large-scale data sets such as National Family Health Survey (NFHS), Longitudinal Ageing Study in India (LASI), Sample Registration System (SRS), Sero-Survey, Global Youth Tobacco Survey (GYTS), etc. The participants were given assignments, had discussions on the problem and also got hands-on training.

Coordinator: Prof. Laxmi Kant Dwivedi

Workshop on Introduction of Human Mortality Database (HMD)

The International Institute for Population Sciences (IIPS) organized a one-day virtual workshop on **September 9, 2021** through WebEx Video Conferencing Application on the **Introduction to Human Mortality Databases – HMD**. **Prof. Usha Ram**, the Workshop Coordinator, welcomed the resource persons – **Dr. Dmitri Jdanov**, Head of the Laboratory for Demographic Data, and **Dr. Domantas Jasilionis**, Research Scientist at the Max Planck Institute for Demographic Research, Rostock, Germany. **Prof. K. S. James**, Director and Senior Professor, IIPS, formally inaugurated the workshop. Prof. James emphasized the workshop's importance, especially during the COVID-19 pandemic. Eleven faculty members and 35 research scholars from IIPS, and one research scholar from JNU, New Delhi attended the workshop. The workshop covered the following topics: Background and description of data, including data quality issues; Need for including data for developing countries, especially India and China, in the HMD; Data quality and uses of data for formal demographic analysis; and Use of HMD data for COVID analysis.

Coordinator: Prof. Usha Ram.



“Introduction of Human Mortality Database”, Online Workshop

RESEARCH LEADER SESSION AT INTERNATIONAL POPULATION CONFERENCE

The 29th International Population Conference (IPC 2021) was organised by the International Union for the Scientific Study of Population (IUSSP) during 5-10th December 2021 through the virtual platform. IIPS was invited to organize a Research Leader Session at this prestigious conference which is held once in four years. The Research Leader session on “*Ageing in India: Emerging Issues and Challenges Based on LASI*” was organised on 7th December 2021. The speakers for the session were **Prof. David Bloom**, Professor of Economics and Demography at the Harvard School of Public Health, **Prof. Jinkook Lee**, Research Professor of Economics and program director of the Center for Economic and Social Research (CESR) at the University of Southern California (USC), **Prof. T. V. Sekher**, Professor at IIPS and **Dr. Sanjay Kumar**, UNFPA, India. The Session was chaired by Prof. K. S. James, Director, IIPS. Prof. Bloom gave an overview about Longitudinal Ageing Study in India (LASI), Prof. Lee discussed on Air pollution and Cognition based on the insights from LASI, Prof. Sekher talked about Social Security Programs for Elderly in India and Dr. Sanjay Kumar made a presentation on Public Health Care Utilization by Elderly in India. The session was followed by a detailed discussion and Researchers from across the world attended this session. The recorded version of this Research Leader session is available at: [Ageing in India: Emerging Issues & Changes Based on Longitudinal Ageing Study in India #LASI #IPC2021 - YouTube](#)



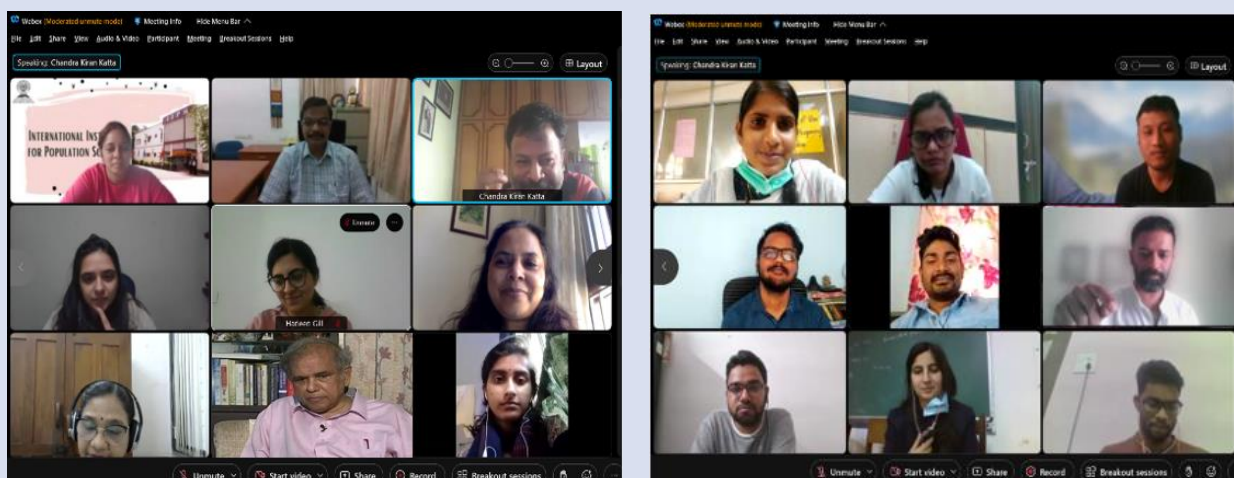
Research Leader session, Dec. 5-10, 2021

WORKSHOPS AND TRAINING PROGRAMMES

Workshop on Research Design in Migration Studies with Special Reference to Covid-19 Pandemic

The Short-Term Training Programme (STTP) Cell of the International Institute for Population Sciences (IIPS) organized a 6-day online training programme on “Research Design in Migration Studies with Special Reference to Covid-19 Pandemic” during 07 - 12 February, 2022, on the virtual platform. Prof. Archana K. Roy, Prof. T. V. Sekher and Dr. Dipti Govil were the coordinators for the programme.

More than 75 applicants applied for the workshop out of which 30 participants were short listed. 13 Eminent resource persons in the field of migration took classes for the workshop.



Workshop on Research Design in Migration Studies with Special Reference to Covid-19 Pandemic, Feb. 7-12, 2022

The workshop covered theoretical and technical components of migration studies, with a special focus on designing migration research and data collection methods. On the last day of the training, as a part of the group work, the participants came up with research designs for their topics on migration

WEBINAR ON MTP ACT @ 50: AVAILABILITY AND USE OF DATA AND EVIDENCE FOR DECISION-MAKING

IIPS, in collaboration with the Population Council, New Delhi and FPAI, Mumbai, organized a webinar on *Availability and Use of Data and Evidence for Decision-making*, which is 3rd in the series of spotlight sessions on MTP Act @ 50 initiated by the Family Planning Association of India. The webinar was held on 28th October 2021. Prof. K.S. James, Director and Senior Professor, IIPS and Dr. Rathnamal Desai, President, FPAI, welcomed the speakers and participants. Eminent experts namely, Dr. Susheela Singh, Guttmacher Institute, USA; Dr. Sushanta K. Banerjee, IDF; Dr. Priya Nanda, BMGF; Dr. Sharad Iyengar, ARTH; Mr. Shankar Narayanan, PSI and Mr. Anand Sinha, The David and Lucile Packard Foundation, India, deliberated in the webinar. The deliberations of the webinar touched upon different perspectives starting with the relevance of abortion data in view of MTP Amendments, 2021, data driven policy and programmes related to abortion, need of abortion data for vulnerable population subgroups especially the need of age-specific



Webinar on MTP Act @50, Oct. 28, 2021

abortion data, assessing issues of ground reality with large-scale national level data, abortion from the perspective of industry and finally emerging questions for Evidence-based programming. Around 150 participants from across the globe participated in the webinar. Prof. Chander Shekhar and Dr. Harihar Sahoo coordinated the webinar.

WORKSHOP ON ADVANCED SURVEY RESEARCH: THEORY & PRACTICE

A five-day workshop on Advanced Survey Research: Theory and Practice was organized from 28th March to 1st April, 2022 by the *Department of Survey Research & Data Analytics* in IIPS. It was conducted through hybrid mode. The aim of the workshop was to provide a suitable platform to faculties and research scholars for understanding



theoretical and empirical issues involved in survey research methods. Around 25 participants attended in-person while 9 participants attended online. Prof. Laxmi Kant Dwivedi welcomed all the participants and faculties. The participants were from TISS, Mumbai; Wish Foundation, Jaipur; NMIMS, Mumbai; MGM college, Mumbai; JNU, New Delhi; IIT, Mumbai; Manipur University, Manipur; Manipur Technical University, Manipur; Asian Institute of Public Health, Bhubaneshwar; Reliance Foundation, Mumbai; Sattva Foundation, Delhi, and IIPS. Prof. S.K. Singh talked about the importance of survey research in India and how this workshop could benefit the participants. Prof. K.S. James, Director, appreciated the organizers for successfully organizing the workshop.

Coordinator: Prof. S. K. Singh, Prof. Laxmikant Dwivedi, Dr. Preeti Dhillon



Advanced Survey Research Workshop, March 28-April 1 2022

Demography in general and his research work on India in particular. **Prof. P. M. Sandhya Rani**, General Secretary, IASSH, proposed the vote of thanks. Over 170 participants attended the lecture.

LECTURE SERIES ON CLINICAL TRIALS FOR MBD STUDENTS

As a part of the collaborative work between the International Institute for Population Sciences and Tata Memorial Centre (IIPS-TMC), IIPS organized a “Lecture series on Clinical Trials” for MBD second year students. Dr. Atanu Bhattacharjee, Assistant Professor at Section of Biostatistics, Centre for Cancer Epidemiology (CCE), TMC and Mr. Sanjay Talole, Scientific Officer, Section of Biostatistics CCE, TMC were the resource persons for the invited lectures. 34 MBD second year students benefited from these 12 hours of online lecture series (scheduled from January 8-25, 2021). The series was coordinated by Prof. S.K. Singh and Dr. Preeti Dhillon.

WORKSHOPS & TRAINING PROGRAMMES ORGANIZED

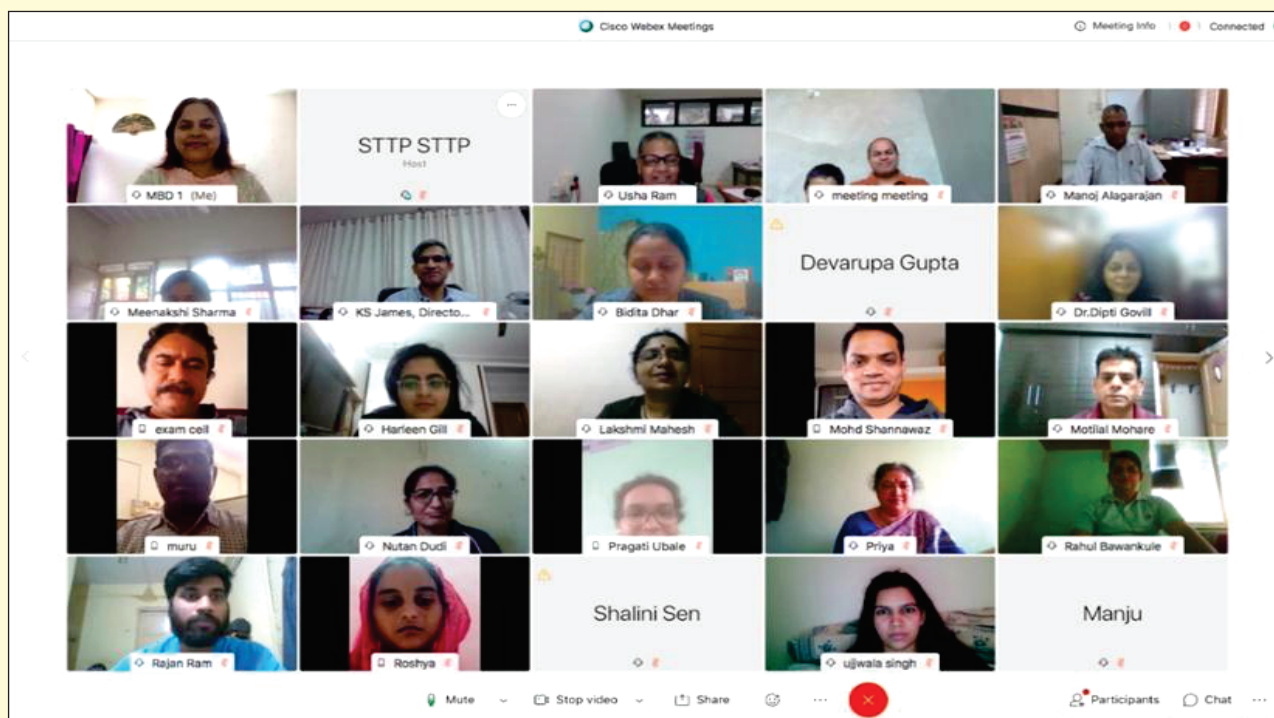
Training Programme on “Qualitative Research Methods in Demography and Health”

The Short Term Training Programme & Publication Cell (STTP & PC) of the International Institute for Population Sciences (IIPS) organized a 6-day online training programme on “Qualitative Research Methods in Demographic and Health Research” from 23-28 November 2020 through WebEx video conferencing application. The main objective of the training programme was to train young researchers about using various tools and techniques of qualitative methods and their application in the field of demography and health research. 22 participants (7 from IIPS and 15 from outside) from various disciplines across the country participated in this course. The programme was inaugurated by Prof. K. S. James, Director and Senior professor, who emphasized upon the importance of qualitative data in contemporary research.

This training programme was divided into three sections- 1) conceptualization and designing of qualitative study; 2) data collection techniques and tools; and 3) qualitative data analysis. On the first day, Overview of Qualitative research, Research Design and Sampling Methods were covered. On the second day, some pertinent topics like, Guidelines; Data Collection Skills, Data Documentation & Management and Ethical Considerations were discussed. The subsequent two and half days were dedicated to teaching and learning about different tools for data collection. In the last two days, participants were trained on content analysis and given exposure to the analytical software called ATLAS.ti.

Prof. Ajay Bailey (Utrecht University, Utrecht, the Netherlands) and Dr. Sreeparna Chattopadhyay (Independent Researcher) and IIPS faculty members Prof. S.K. Singh, Prof. Usha Ram, Dr. Manas R. Pradhan and Dr. Dipti Govil were the resource persons for the training programme. The inaugural and valedictory sessions were also attended by faculty and staff of the Institute. The STTP & PC coordinators, Prof. Usha Ram welcomed the guests and participants, and proposed a formal vote of thanks. This was followed with online group photographs of participants, resource persons and STTP & PC. Each participant was provided with a certificate of participation on completion of the training programme.

Coordinators : Prof. Usha Ram, Mr. Babu Santosh Kumar, Dr. P. Murugesan and Mr. Rishabh Gupta.



“Qualitative Research Methods in Demography and Health” Online Training Programme Group Photo

Workshop on Applied Econometrics Methods

Applied Econometrics Methods workshop has been conducted under Geo-Spatial Mapping Project, IIPS. The duration of the project was 29th August - 30th November, 2020. The classes were taken 2 days in a week virtual in platform. The workshop was conducted in collaboration with Dr. Sowmya Dhanaraj from Madras School of Economics, Chennai. Around 50 students participated in the 20 days (2 hours each) long workshop. Participants were mostly from Doctoral and MPhil courses and few working professionals in the field of population and development also joined the course. Participants are from IIT Mumbai, Lords Education and Health Society- Wadhwani Initiative for Sustainable Healthcare (LEHS|WISH), Manipur Technical University, Tata Institute for Social Sciences, and Department of Economics- Manipur University.

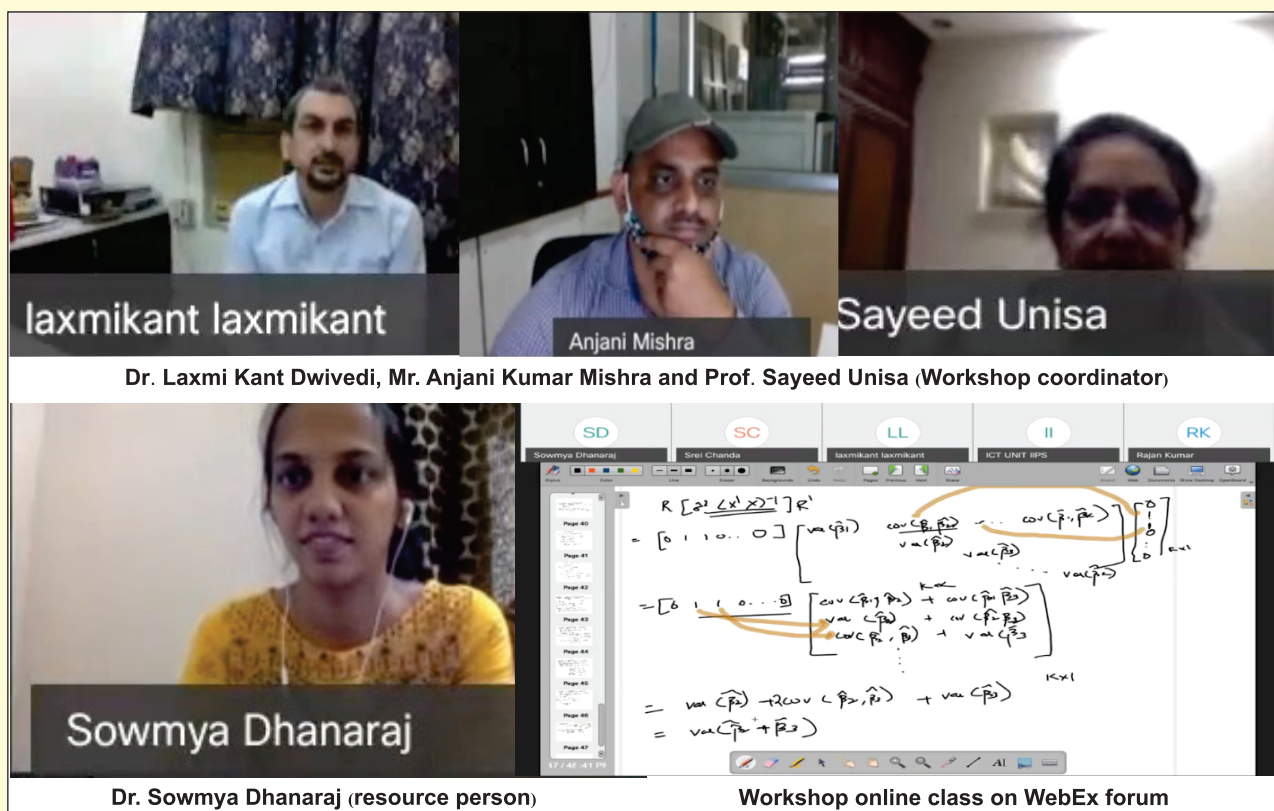
Workshop focused on Econometric methods with theoretical knowledge and applications on the data in STATA software. The main topics are regression analysis, multiple regression analysis, CLRM assumptions and violation, dummy variables, discrete response models, panel data modelling, two variable regression, asymptomatic, endogeneity (instrumental variable and 2SLS modelling), heteroskedastic (GLS and WLS), autocorrelation etc.

The workshop was inaugurated by the Director and Senior Professor, Prof. K S James. He describes the importance of learning and deriving the equations and modelling in the field of demography and population studies. Prof. S. Unisa highlighted the importance of conducting such workshops. Dr. L. K. Dwivedi briefed the objectives of the workshop and Mr. Anjani Mishra introduced the speakers of the workshops to the

participants. The training was conducted by giving assignments and in the subsequent classes, participants discussed their doubts. The participants also shared their research topics and methods related questions/doubts every day at the end of the class.

Last day, Ms. Srei Chanda proposed the vote of thanks to the organizers and resource persons. Participants were highly motivated, spontaneous and happy to participate in this workshop and were confident that the knowledge gathered during this workshop will be helpful in enhancing their academic skills and research work.

Coordinators : Dr. Laxmi Kant Dwivedi, Mr. Anjani Kumar Mishra and Prof. Sayeed Unisa.



Training Program on Family Planning Estimation Tool (FPET)

The Training program on Family Estimation tool was conducted on two days, i.e. 20th and 23rd January 2021, which was organized by Department of Mathematical Demography & Statistics, IIPS.

Dr. A.A. Jayachandran and Dr. Jay Prakash from Track 20 India/Avenir Health were the resource persons for the sessions. The objective of the training program was to understand the innovative model (FPET) which was designed to use all available data to develop annual estimates of mCPR, unmet need, and demand for family planning satisfied by modern methods beyond the date of the last survey and in future. 44 Ph.D. students registered for the workshop.

On the first day, the students were introduced to the family planning estimation tool, wherein Dr. A.A. Jayachandran demonstrated the statistical theory behind the tool and how it could help to forecast the future