



सत्यमेव परमो धर्मः

**INSTITUTE OF ECONOMIC GROWTH**

**ANNUAL REPORT  
2021-22**

Website: [www.iegindia.org](http://www.iegindia.org)

# ANNUAL REPORT 2021-22



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**INSTITUTE OF ECONOMIC GROWTH**

University of Delhi Enclave,  
(North Campus), Delhi-110007, India.

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## FROM THE DIRECTOR'S DESK: HIGHLIGHTS OF 2021-22

The year 2021-2022 was a year of transition at the Institute of Economic Growth (IEG). It spanned the term of three Directors: Ajit Mishra (till September 8), Officiating Director Indrani Gupta's term (till February 7) and the commencement of Chetan Ghate's term from February 7.

IEG hosted the second FutureDAMS workshop on 'Dams, Development and Water' during April 27-28, 2021. Several institutions participated: IEG; the Universities of Manchester, East Anglia, and Greenwich; WIDER, Helsinki; IRMA, Anand; IWMI, Delhi and ISB, Hyderabad.

The Institute co-hosted the annual SERI (Society for Economics Research in India) workshop. Over a three-day period (July 17-19, 2021), several young scholars presented their work with established leaders in the area acting as discussants. The three-day event also had Soumya Swaminathan (Chief Scientist, WHO) and Rukmini Banerji (CEO, Pratham) discussing the impact of Covid-19 pandemic on health and education.



IEG launched the first Summer Research Scholarship Scheme on June 1, 2021. Six teams of young researchers (MA students) from different disciplines were selected to carry out research on issues related to public policy over a three-month period. IEG provided them with financial support and mentoring. This scheme had generated a lot of interest, despite the pandemic-related restrictions, with applications from students from several higher education institutions. Given that research by IEG faculty is multidisciplinary and public policy–focussed, this scheme will, in addition to generating research output, go a long way towards building capacity.

The Population Research Centre (PRC) has been an important centre for research in demography and population studies. During this period, the PRC organised several events including the World Population Day lecture (July 11, 2021). A digital population clock has been installed at the Institute.

During the Officiating Director's term, new and exciting initiatives were initiated besides the routine work of handling an institute. Shri N.K. Singh took over as President of the Institute of Economic Growth in August 2021. This brought new energy to a host of initiatives. One of the notable initiatives was setting up the Infrastructure Fund, and both the President and the Chairman helped launch the Fund with their contributions. The idea was to use these funds to raise the quality of infrastructure in IEG's official and personal spaces. Initial discussions started on the plans to have two new Chairs at IEG - the HDFC Bank Chair on Banking and Finance and the Tata Chair on Information and Technology respectively. The other important initiative was the idea of the Kautilya Economic Conclave. A team comprising the Officiating Director, and members of the faculty and the departments of administration and finance, worked tirelessly to lay the early foundations of the Kautilya Economic Conclave.

A unique exhibition, 'Remembering Prof V.K.R.V. Rao', was organised with the help of IEG's library to mark Founder's Day from December 9, 2021 to December 15, 2021. This was the first time that IEG could showcase the priceless volume of books, letters, photos and other artefacts collected and preserved over the years by the Institute since its inception. This included the first published book of the Founder Prof V.K.R.V. Rao and all his subsequent collections, the tape with the data of the first census carried out in India, the original letter of Rabindranath Tagore written to Asaf Ali, among other things. The well-known journalist and writer Vithal Nadkarni joined the inaugural as a special guest.

The joining of the new Director, Chetan Ghate, from the Indian Statistical Institute, Delhi, saw a further thrust to existing and

new academic and infrastructure initiatives at the Institute. Work on the Kautilya Economic Conclave (KEC) and the inaugural Arun Jaitley Memorial Lecture gathered steam. A weekly Brown Bag Seminar Series for faculty to present ongoing work commenced. Initial steps and resources to have a new website for IEG (now a reality at [www.iegindia.org](http://www.iegindia.org)) were put into place. Details for an active visitor and workshop programme for faculty were proposed, as well as a new proposal to nominate Non-Resident Senior Fellows to the Institute. A proposal to start and a research workshop series was initiated. All of these initiatives received strong support from the Board of Governors, Board of Trustees, meetings with the faculty, and the Academic Committee meetings held by the new Director during February and March 2022.

Shri Ramesh Chand, Member, NITI Aayog, joined IEG as Chairman on March 10, replacing Shri Tarun Das, who resigned as Chairman of the Board of Governors on February 28.

To celebrate India's 75 Years of Independence, IEG commenced a series of monthly Azadi ka Amrit Mahotsav (AKAM) events funded by the Ministry of Finance. IEG's first AKAM event was in January 2022, by Dr. Indranil Bhattacharya (Reserve Bank of India). The second event, an AKAM distinguished lecture, was delivered by Prof Arvind Panagariya (Columbia University).

Throughout the year, the seminar series attracted key speakers domestically and internationally. A wider audience was made feasible by the online mode of delivery. IEG also co-hosted several seminars jointly with the Delhi School of Economics. The Indian Society for Ecological Economics (INSEE) and IEG jointly organised a seminar in March 2022, part of an ongoing engagement.

Despite the shadow of the pandemic looming large, the Institute continued its research activities and collaborative exercises. IEG faculty and post-docs published 51 research articles in peer-reviewed journals during the reporting period. Using the 2019 ABDC rankings as an informal benchmark for quality, two of these articles were in A\* journals, while four were in A ranked-journals. IEG faculty members continued to provide key inputs into government policy making through various committees. Continuing a long tradition, IEG served as a knowledge partner to several government ministries.

On the training front, the Indian Economic Service (IES) Induction Training continued online throughout the year and then moved to in-person in February 2022. My colleagues in the IES Unit worked tirelessly to make sure that the training functioned smoothly.

I briefly provide a flavour of the research published by IEG faculty from 2021 to 2022.

**Basanta Pradhan** published two papers in a top field journal in the field of energy, *Energy Economics*, and continued with his research using computable general equilibrium (CGE) modelling of greenhouse gas (GHG) emissions and the emissions intensity of the Indian economy. **Nilabja Ghosh**, through the FASAL project, continued ongoing work for the Ministry of Agriculture to provide monthly forecasts for cereal production. **William Joe** conducted and published research, and provided technical support to the Anemia Mukht Bharat (AMB) initiative, which has been instrumental in improving programme implementation under the National Health Mission. **Indrani Gupta's** research on health sector issues served as an input into the report of the Lancet Commission on Gender and Health. **Purnamita Dasgupta** continued to advise the Government of India on environmental issues and in several high-level committees and published work on climate issues facing India. **Pravakar Sahoo** continued to work on trade and growth issues, and published work on outward foreign direct investment (FDI). **C.S.C. Sekhar** published research examining the differences between various types of income support provided to farmers in India. **Brajesh Jha** published research on the requisite institutions for increasing farm income. **Arup Mitra** continued to publish research on employment and informality, as well as urbanisation and productivity.

IEG faculty also contributed significantly to research on Covid-19-related issues.

**Sangeeta Chakravarty** published research on the socio-demographic factors governing Covid-related health outcomes. **Chandra Sekhara Rao** published research on how the food industry was coping with Covid. **Suresh Sharma** published research on the delivery of family planning services during Covid. **Archana Dang** worked on obesity and Covid. **Saudamini Das** published research on the adequacy of social assistance during the Covid lockdown in Delhi's slums. **Deepak Varshney**

published research examining India's Covid-19 social assistance package. **Salman Haider** published research on the nexus between Covid and clean energy stocks and oil prices. **Mausumi Das** published research on Covid-related issues and worked in the area of macrodynamics. **Vikram Dayal** created an interactive website using the R shiny app feature. This app allows users to view data related to Covid waves at different locations across the globe. **Swati Sharma's** studied reverse migration during Covid, and identified the types of provisioning for women under employment generation programmes that would address low and declining female labour force participation in India. **Veena Naregal** published research on the phenomenon of labour invisibility during Covid.

On other topics, **Sabyasachi Kar** continued with research on Central Bank Digital Currencies (CBDCs).

**Sandhya Garg** researched the impact of access to banks on economic activity at the village level in India. **Gudakesh's** research work identified the challenges the country faces and critical emerging issues in maternal and child health (MCH), nutrition and family planning. **Oindrila De** worked on issues related to innovation and productivity to avoid India getting into a middle-income trap. Sakshi Saini worked on trends in palm oil production and trade in India.

On the infrastructure front, several initiatives commenced, including the initial steps to redesign the lobby area in front of the library to give it a modern feel, and the commencement of the process for whitewashing the residential buildings on campus to give them a modern and clean look.

**Chetan Ghate**

*Director, IEG for this Report Period: April 1, 2021 to March 31, 2022*

## ABOUT THE INSTITUTE

The Institute of Economic Growth (IEG), established by eminent economist V.K.R.V. Rao in 1952, is an autonomous and multidisciplinary centre for advanced research and training. It is one of India's leading institutions focusing on research and policy formulation in the fields of economic and social development. Its faculty of about 20 social scientists (economists, demographers, sociologists and social anthropologists) and a large body of supporting research staff focus on the analysis of salient and cutting-edge areas of social and economic concerns. Several former faculty members have served as members of the Planning Commission on the Prime Minister's Panel of Economic Advisers. The current faculty continues the tradition by contributing to several Advisory Boards and Commissions.

IEG's faculty, Board of Governors and Board of Trustees have included a wide range of distinguished intellectuals and policymakers, including V.T. Krishnamachari, C.D. Deshmukh, P.N. Dhar, A.M. Khusro, Dharm Narain, C. Rangarajan, C.H. Hanumantha Rao, Ashish Bose, Nitin Desai, T.N. Madan and Bimal Jalal. Former Prime Minister, Dr. Manmohan Singh was the President of the IEG Society. As a leading research centre, IEG has hosted renowned scholars including Pranab Bardhan, Kaushik Basu, Jam Breman, Diane Elson, Yujiro Hayami, James Heckman, Ronald Herring, Lawrence Klein, Elinor Ostrom, Amartya Sen and Nicholas Stern.

The Institute is a non-profit registered society and also a charitable trust. It receives regular grants from the Indian Council of Social Science Research (ICSSR) and from the Ministry of Health and Family Welfare (MoHFW), Ministry of Agriculture and Farmers Welfare (MoA&FW) and the Ministry of Finance (MoF). The Institute has received endowment grants from both government and private sources such as the Planning Commission, Reserve Bank of India (RBI), National Bank for Agriculture and Rural Development (NABARD), the Ford Foundation and the Sir Ratan Tata Trust. Besides, IEG has undertaken research projects supported by agencies such as the World Bank, UNDP, ILO, WHO, DFID (UK) (now the Foreign, Commonwealth and Development Office), IDRC, CIDA, Ford Foundation, the Bill and Melinda Gates Foundation, South Asian Network for Development and Environment Economics (SANDEE) and the ICSSR.

Research at the Institute focuses on major themes in economic and sociological theory and practice. It also brings to bear conceptual clarity and empirical rigour in the analysis of central issues in public policy. The research programme is dynamic and regularly updated to incorporate new questions, approaches and methodological techniques.

Since its inception, IEG has functioned as a centre for teaching and specialised training. Since 1968, it has conducted training programmes for Officers of the Indian Economic Service (IES) in economic and policy analysis. IEG also organises short-term orientation and refresher courses on request from the government or other institutions. IEG faculty serve as co-supervisors for research students registered at various universities. Although the Institute does not conduct a PhD programme, nearly a hundred students have been awarded PhD degrees under the guidance of IEG faculty.

IEG is one of the network institutions of the ICSSR whose grant has been a key component of the Institute's finances since 1974-75. The ICSSR also provides doctoral and postdoctoral fellowships at the Institute. Being part of the ICSSR network, IEG has the privilege of interacting with several other social science institutions in the country.

The Institute is a partner in the M.S. Merian-R. Tagore International Centre of Advanced Studies in the Humanities and Social Sciences (ICAS-MPP). The Institute is partnering several research institutions including Lee Kuan Yew School of Public Policy at National University of Singapore, Global Development Institute at Manchester, and CRADLE at Cornell University.

Research and training activities are organised at various units and centres of the Institute.

## **Agricultural Economics Research Unit**

The Agriculture Economics Research Unit (AERU) was established in 1961 as the MoA&FW, Government of India (GoI), felt the need for all-India studies. The Unit works on research areas suggested by the MoA, supplemented by inputs from academics and policymakers who form its Research Advisory Committee. The Unit has worked on a wide spectrum of subjects pertaining to agricultural policy and development and contributed significantly to agricultural policy research in the country.

After the adoption of high-yielding varieties (HYV) in the 1960s, studies investigated technological change and its distribution, effects on employment, subsidies and investment in agriculture, water and natural resources for agricultural growth and the importance of the non-farm sector. A few studies also evaluated the working of different government programmes like the Rashtriya Krishi Vikas Yojana (RKVY) and the natural resource management component in Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). More recent studies examine fertilisers, trade in agricultural commodities, marketing, prices, economic distress of farmers, rural transition, land use and climate change.

## **Development Planning Centre**

The Development Planning Centre (DPC) was set up with an endowment grant from the erstwhile Planning Commission (now NITI Aayog). In the past, the DPC specialised in macro-econometric analysis with special expertise in building macro-models used to analyse macroeconomic behaviour and policy and for forecasting. Currently, the faculty at the Centre are working on a wide range of macro issues concerning the Indian economy. The issues vary from growth dynamics and structural transformation, financial markets and stock market behaviour to political economy, income distribution and climate and energy economics.

## **Environmental and Resource Economics Unit**

Since the 1980s, IEG has been a pioneer in environmental and resource economics in India. An endowment grant from the Ford Foundation in 2001 led to the establishment of the Environmental and Resource Economics Unit at the IEG. Over the years, the Unit has kept up its tradition of incorporating ideas from the other social and physical sciences to understand the critical role played by ecosystems and natural resources in ensuring social and economic well-being, and the importance of this approach is increasingly being recognised.

The Unit aims to provide solutions and insights on the possibilities and challenges of convergence between profitability, consumer behaviour and sustainability. Economic valuation and climate change economics have been two major foci of the Unit's research in recent years.

## **Health Policy Research Unit**

The Health Policy Research Unit (HPRU) was started in 1998 with a major grant from the Ford Foundation. The Unit uses tools of economic analysis to conduct research in areas that address the current and long-term objectives of the health sector. It aims to establish world-class research expertise in health sector analysis and build research alliances with a wide spectrum of stakeholders, including the government, research institutes, development partners and domestic health NGOs. The Unit encourages interdisciplinary research, with a core focus on health economics. Some of its major areas of research have been demand for healthcare; health financing with emphasis on health coverage; health and poverty; economic aspects of diseases like HIV/AIDS and non-communicable diseases; and international agreements impacting on health, costing and cost-effectiveness.



## **Indian Economic Service (IES) Unit**

Since 1968, the Indian Economic Service (IES) Unit of the IEG has been organising training programmes for IES officers on behalf of the Department of Economic Affairs, Ministry of Finance, GoI. Training in economic policy and planning is provided to newly recruited IES Officers on a regular basis and to in-service Officers from time to time. The objective of the training is to enrich the Officers' understanding of economic issues and to strengthen their capacity to make effective contributions to policymaking.

The IES Unit conducts research on issues of economic policy and development. In 2019-20, the faculty's research resulted in peer-reviewed publications in key areas of economic policy such as labour and employment, financial access, trade facilitation, manufacturing, competition, ecological economics and data analysis. The Unit draws on the Institute's own research and its continual engagement with applied research that is relevant to policy while training Officers. The faculty use their expertise on data and institutional arrangements, and their familiarity with the latest research techniques and software applications, to inform their teaching and provide training that is appropriate and current.

## **Population Research Centre (PRC)**

The Population Research Centre (PRC) at IEG, one of the earliest of its kind in the country, was set up by the GoI in 1957. An overriding objective for the government while setting up the PRC was to examine high population growth prevailing then as an important demographic deterrent to the country's planning growth. The finances allocated to the PRC come from the MoHFW.

The PRC staff pursues policy-relevant research in thrust areas such as fertility and family planning; urban demography and internal migration; regional variations in population parameters; contraception and reproductive health, child health and mortality; the ageing process in India; the population-development-environment nexus; and economic security and human resource development. In addition, the PRC has been involved in most of the large-scale surveys conducted by the Ministry of Health over the past decades, including three rounds of the National Family Health Survey (NFHS) and District-Level Health Surveys (DLHS).

## **Reserve Bank of India (RBI) Endowment Unit**

In 1979, the Reserve Bank of India (RBI) gave a grant to IEG to set up an applied econometrics research section. The Applied Econometric Research Centre collaborated with the LINK Model of Prof Lawrence Klein. The RBI Endowment Unit was set up in 2002; its research projects and publications are related mostly to macroeconomics, international economics and development economics.

## **Social Change and Social Structure Unit**

The Social Change and Social Structure Unit evolved out of the Asian Research Centre that UNESCO founded at the IEG in 1967. With the phasing out of UNESCO support, this Centre was reorganised into its current form in 1974. It has since been funded by the ICSSR's Maintenance and Development Grant.

Over the past four decades drawing on the diverse interdisciplinary training of its faculty, the Unit has conducted research on a range of topics including the comparative study of development; religion and secularism; gender, family and kinship; urban and rural transformation; tribal rights and livelihoods; professionals and other middle-class elites; social policy with respect to education, labour, urbanisation, health, cultural forms, disciplinary histories and thematic of marginalisation; visual studies; theatre histories; media networks and social transformation; cultural politics of the environment; and language and Indian democracy. The Unit also publishes the reputed journal *Contributions to Indian Sociology*.

## RESEARCH ACTIVITIES: BRIEF OVERVIEW

The main thrust of IEG's research is on the development of India's economy and society. Faculty members work on both conceptual and empirical issues with strong policy relevance. The research programme is revised periodically to incorporate new areas of interest. Many faculty members work on more than one theme.

### 3.1 COMPLETED PROJECTS AND STUDIES

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
<b>Agriculture and Rural Development</b>	An Investigation into Policy Environment for Price Support in Agricultural Commodities	Ministry of Agriculture and Farmers Welfare (MoA&FW), Government of India (GoI)	Brajesh Jha	September 2018	April 2021
	Market Imperfections and Farm Profitability	Ministry of Agriculture and Farmers Welfare (MoA&FW), GoI	C.S.C. Sekhar	April 2019	June 2021
	Forecasting Agricultural Output Using Space, Agro-Meteorology and Land based Observation (FASAL)/Real Time Information System of Agriculture Sector (RTISA)	MoA&FW, GoI	Nilabja Ghosh, M. Rajeshwor, Alka Singh and Yashika Rani	2005	Submitted kharif and rabi monthly forecasts for the year 2021-22
	Coordinated Horticulture Assessment and Management using Geo-informatics (CHAMAN)	Mahalanobis National Crop Forecast Centre (MNCFC) under MoA&FW	Nilabja Ghosh, M. Rajeshwor and Yashika Rani	2017	Submitted forecast reports for three crops (onion, tomato and potato) for the year 2021-22
	Econometric Crop Yield Modelling with Satellite Remote Sensing under 'Space Utilization for Food security and Agricultural Assessment and	Space Applications Centre (SAC), Indian Space Research Organization (ISRO)	Nilabja Ghosh, M. Rajeshwor and Yashika Rani	2019	District-level satellite data updating completed. Initiated modelling

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Monitoring (SUFALAM)' Programme				
<b>Environmental and Natural Resource Economics</b>	Developing an Investment Case for Kochi under the Integrated Sub-national Action for Biodiversity (NBSAP INTERACT_Bio Project)	ICLEI, South Asia and ICLEI, Bonn	Purnamita Dasgupta	July 2020	January 2022
	Developing Future Socio-Economic Scenarios in the Context of Climate Change (India's Third NATCOM, UNFCCC)	Ministry of Environment, Forests and Climate Change (MoEFCC, GoI)	Purnamita Dasgupta and Manoj Panda (formerly associated)	October 2017	March 2022
	Effects of Heat on the Incomes of Workers in the Informal Sector	Environment for Development (EfD) Initiative, University of Gothenburg, Sweden	Saudamini Das, E. Somanathan and Yonas Alem	April 2018	December 2021
	Mid-Term Evaluation of Climate Change Adaptation Projects	National Bank for Agriculture and Rural Development (NABARD)	Saudamini Das	June 2019	November 2021
<b>Health Economics and Policy</b>	Obesity and its Impact on Covid Occurrence: Evidence from India	Individually initiated	Archana Dang and Indrani Gupta	Dec. 2020	May 2021
	What Really Empowers Women? Taking another Look at Economic Empowerment	Individually initiated	Indrani Gupta	October 2021	March 2022
	Are Gender Budgets Necessary for Reducing Inequalities in Health Outcomes?	Invited (Springer book chapter)	Indrani Gupta	August 2021	February 2022
	Musculoskeletal Diseases in India: Is there a Cause for Concern?	Individually initiated	Indrani Gupta	December 2020	June 2021
	Effect of Air Pollution on Cognitive Performance in India	Individually initiated	Damini Singh/Indrani Gupta	January 2022	May 2022

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
<b>Labour and Welfare</b>	A Double Whammy: Lives and Livelihoods of Delhi Riot Victims during the Pandemic	Individually initiated	Mausumi Das Oindrila De	August 1, 2020	December 31, 2021
	Breaking the Glass Ceiling for Women in Manufacturing Sector: Workplace Ties Perspective	Initiative for What Works to Advance Women and Girls in the Economy and Institute for Financial Management and Research (IWWAGE-IFMR)	Swati Sharma and Ajit Mishra	October 1, 2020	March 31, 2022
	Covid 19, Social Protection and Women's Work	Individually initiated	Swati Sharma and Nikita Sangwan	April 1, 2021	May 15, 2022
	Employment Effects of an Emergency Assistance Package for Migrants Displaced by Covid-19: The Garib Kalyan Rojgar Abhiyaan (GKRA) in India	Individually initiated	Deepak Varshney and J.V. Meenakshi	December 15, 2021	--
<b>Macroeconomic Analysis and Policy</b>	The Responsiveness of Development Expenditure to Output: An Analysis of Indian States	Individually initiated	Basanta Pradhan, Sangeeta Chakravarty and Rashmi Rastogi	July 2021	March 2022
	Should the Reserve Bank of India (RBI) Introduce a Central Bank Digital Currency (CBDC) in India?	Individually initiated	Sabyasachi Kar	July 1, 2021	March 30, 2022
	Using Big Data for Macroeconomic Forecasting	Individually initiated	Sabyasachi Kar	July 1, 2021	March 30, 2022
	Do Machine Learning Techniques Provide Better Macroeconomic Forecasts?	Individually initiated	Sabyasachi Kar	July 1, 2021	March 30, 2022
	Carbon Pricing and Technological Progress in Achieving India's	Individually initiated	Basanta Kumar Pradhan	May 2020	July 2021

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Nationally Determined Contribution (NDC) Target				
	A Computable General Equilibrium (CGE) Analysis of Alternative Economic Recovery Scenarios for India	Individually initiated	Basanta Kumar Pradhan	April 2020	September 2021
	Achieving the Sustainable Development Goals (SDG) in Odisha: Challenges and Opportunities	Individually initiated	Basanta Kumar Pradhan		November 2021
	The Mahalanobis Growth Model: A Macrodynamics Approach	Individually initiated	Chetan Ghate, Pawan Gopalakrishnan (RBI), Srishti Grover (Former MSQE Student)	June 2020	March 2022
	Debt Decomposition and the Role of Inflation: A Security Level Analysis for India	Policy and Planning Research Unit (PPRU), ISI Delhi	Chetan Ghate and Piyali Das (independent researcher)	April 2018	July 2021
<b>Population and Human Resource Development</b>	Assessment of Government of India's Gender Mainstreaming Programmes for Women in Science	Department of Science and Technology (DST), GoI	William Joe	April 2021	June 2021
	Coverage Evaluation of National Vitamin-A Prophylaxis Programme of India: A District-level Analysis based on HMIS	Population Research Centre, MoHFW, GoI	William Joe	April 2021	September 2021
	Coverage of ICDS Services in India: A District-level Analysis with Policy Insights for Mission POSHAN 2.0	Population Research Centre, MoHFW, GoI	William Joe	April 2021	September 2020
	Coverage and Improvements in Family Planning Services in Bihar: Changes after the implementation of Mission Parivar Vikas (MPV)	Population Research Centre, MoHFW, GoI	William Joe	April 2021	September 2021
	Food Insecurity and Dietary Diversity among Low-income Migrant Workers affected by	University of Aberdeen	Aravinda Guntupalli, J Macdiarmid, William Joe,	February 2021	March 2022

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Covid-19		Kunal Keshri, Sandhya Mahapatra		
	Provision and Promotion of Spacing Methods under Family Planning Programme in Bihar	Centre for Catalyzing Change, India	William Joe	January 2020	December 2021
	National Health Mission State Programme Implementation Plans (NHM-PIP), 2021-22: Monitoring and Evaluation for 60 Districts	MoHFW, GoI	Suresh Sharma and PRC staff	July 2021	November 2021
	An Econometric Analysis of Healthcare Utilisation among Octogenarians in India	MoHFW, GoI	Suresh Sharma & Vandana Sharma	March 2021	January 2022
	A Retrospective Study of the Survival Outcomes of Low-Birth-Weight Neonates: Evidences from Specialised Newborn Care Unit (SNCU) Admissions in Rajasthan	MoHFW, GoI	Suresh Sharma & Vandana Sharma	June 2021	March 2022
	Role of Anganwadi Workers and the Challenges faced in Integrated Child Development Services (ICDS): Study based on Aspirational Districts in Rajasthan	MoHFW, GoI	Suresh Sharma and Aashima Gupta	July 2021	February 2022
	Evaluation of Beti Bachao Beti Padoo Programme (BBBP) in India	MoHFW, GoI	Suresh Sharma and Purva Bhalla	April 2021	February 2022

### 3.2 ONGOING PROJECTS AND STUDIES

**Dr. Sangeeta Chakravarty**  
Associate Professor



*'Consumption Pattern of Different Edible Oils in India', Ministry of Agriculture and Farmers Welfare (MoA&FW), Government of India (GoI). Initiated in October 2021, likely date of completion August 2022.*

The agroclimatic conditions in India are diverse and favourable for various crops; oilseeds are one of them. After foodgrains, oilseeds are the most important crop. The objective of the study is to find out the consumption pattern of various edible oils in India. The production and consumption of edible oils will be analysed using both primary and secondary data. When domestic production is not sufficient, there is a need for higher imports to meet the growing demand of consumers. The demand for edible oils is driven mainly by per capita consumption and the standard of living. Further, it is expected that the demand will increase with a rise in income and population. To achieve self-sufficiency in oilseeds, it is important to concentrate on both production and consumption.

**Dr. Mausumi Das**  
Professor

*(with Dang, Archana and Gupta, Indrani) 'Dynamics of Poverty Across Households in India Before and After Covid'. Initiated in April 2021, likely date of completion December 2022.*

This project examines the role of various socioeconomic factors in explaining the dynamics of poverty across households in India before and after Covid.

*(with De, Oindrila and Khan, Zoya) 'The Vulnerability of Riot-Affected Households in North-East Delhi during Covid'. Initiated in April 2021, likely date of completion December 2022.*

This project explores the vulnerability of riot-affected households in North-East Delhi during Covid times.

*(with Mishra, Ajit) 'The Role of Trust in Policymaking'. Initiated in April 2021, likely date of completion July 2023.*

This project explores the role of trust in policymaking and explains how this relationship becomes critical in crises, such as a pandemic.

**Dr. Saudamini Das**  
Senior Visiting Fellow



*'Changing Structure of Rural Livelihood in India In View of Climate Change', funded by NABARD. Initiated in February 2022, likely date of completion June 2022.*

This study will review the changing structure of rural livelihoods in India and the factors of the change and prepare a policy paper.



**Dr. Purnamita Dasgupta**  
Professor



*'Advancing Natural Climate Solutions in India: Economic Analysis', funded by The Nature Conservancy. Initiated in March 2022, likely date of completion October 2022.*

This study will conduct a financial and economic assessment of key natural climate solutions (NCS) pathways in India for the forestry sector up to 2030 and beyond. The NCS pathways are restoration of degraded land, reforestation, avoided deforestation and agro-forestry/trees in cropland. A detailed analysis will be carried out at the national level followed by four state-level case studies of the most feasible pathway for the respective state.

*(with McFarlane, Ro, University of Canberra) 'Options for Delivering Sustainable Approaches to Elements of the Nexus (Health); IPBES Nexus Assessment', funded by Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) (UNEP/UNDP/UNESCO/FAO). Initiated in March 2022, likely date of completion March 2023.*

This chapter will lead to the identification of response options for policymakers to influence health (and associated) outcomes as part of the nexus assessment of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES). The focus is on the role of higher-order interactions between health and other key sectors (food, biodiversity, water) in determining outcomes. I am a Coordinating Lead Author for the chapter, and my work will involve substantial interdisciplinary understanding and coordination, apart from academic inputs.

**Dr. Vikram Dayal**  
Professor

*(with Murugesan, Anand) 'Demystifying Causal Inference: Public Policy Applications With R'. Initiated in February 2022, likely date of completion February 2023.*

The book is a practical introduction to causal inference and data analysis with R for the public policy audience. The authors present causal empirical investigation in a form accessible to public policy practitioners and students. The book, to be published by Springer, takes a gentle, hands-on approach to working with data in R and engaging in policy issues.



**Dr. Oindrila De**  
Assistant Professor



*'Innovation-Led Productivity Growth for Middle-Income Trap Avoidance', funded by the Asian Productivity Organization. Individually initiated on September 15, 2021, likely date of completion June 2022.*

In this paper, we explore India's innovation scenario and government policies and their effect on innovation and productivity based on the existing literature and available innovation surveys. We also examine research and development (R&D), imported capital goods and expenditures on information and communications technologies (ICT) incurred by Indian corporate firms, using the Prowess database, and their impact on firms' total factor productivity in the past 10 years.

*'Interface between Competition Law and Industrial Policy: A Comparative Study of China and India', funded by China-India Visiting Scholars Fellowship, Ashoka University, initiated on September 1, 2021, likely date of completion June 1, 2022.*



In this research, we examine the interface between the industrial policies of the government and competition law in the digital market in China and the lessons learnt for India. We examine China's digital market structure, network of technology firms operating in e-commerce, social media and shared economy space (food delivery and ride-sharing) and how industrial policies helped these firms gain market power in the past 10-year period (post-China anti-monopoly-law period). We also examine recent anti-monopoly law cases against tech firms to understand whether there is any policy shift regarding tech firms in China.

*(with Bhattacharjea, Aditya) 'Market based Sanctions in Cartel Cases in India', for the Competition Commission of India Cartel Working Group. Individually initiated on October 1, 2021, likely date of completion July 30, 2022.*

In this paper, we examine the stock market effects of anti-cartel enforcement on publicly traded companies. We include firms involved in all the horizontal agreement decisions either convicted under Section 27 or closed after investigation (no violation found) under Section 26 (6). We employ standard event study analysis to examine whether cartelised firms showed significant abnormal returns during a pre-specified event window where the event is conviction of cartelisation by the Competition Commission of India.

**Dr. Sandhya Garg**  
**Junior SRT Fellow**



*(with Gupta, Samarth) 'Financial Access of Unbanked Villages in India from 1951 to 2019: A Spatial Approach'. Individually initiated in April 2020, likely date of completion March 2023.*

The objective is to measure access to banks (any bank and private banks) at the village level from 1950 to 2019 and analyse whether the access has been improving over time and whether it varies with the village-level characteristics.

*(with Gupta, Samarth and Mallick, Sushanta) 'Financial Access and Gender Gap in Entrepreneurship and Employment: Evidence from Rural India', individually initiated in October 2020, likely date of completion March 2023.*

The objective is to measure the impact of access to banks on the number of enterprises and employment creation at the village level in India and to explore the impact through credit channel.

*'Intergovernmental Transfers and Convergence in Public Expenditure: Evidence from States in India'. Individually initiated in October 2021, likely date of completion March 2023.*

The objective is to analyse the disparities in public expenditure and determine whether these disparities have been reducing over time with the contribution of total federal transfers and its various types.

*(with Das, Upasak and Gupta, Samarth) 'Impact of Political Scenario on Financial Development: A District-level Analysis'. Individually initiated in March 2022, likely date of completion March 2023.*

In this paper, we study whether the characteristics of politicians – gender, education and alignment with the ruling party at the state and the centre – matters for financial development at the district and state level in India. We measure district-level financial development as the number of bank accounts, outstanding credit and total savings.

**Dr. Nilabja Ghosh**  
**Professor**



*(with Rajeshwor, M., Singh, Alka, Rani, Yashika and Amritanshi, Preeti) 'Forecasting Agricultural Output using Space, Agro-meteorology and Land based Observation (FASAL)/Real Time Information System of Agriculture Sector (RTISA)', funded by MoA&FW, GoI. Initiated in 2005, updating database for kharif crop 2022-23.*

The FASAL project provides early forecasts of crop output using econometric modelling to the MoA&FW every year for finalising official advance and final estimates published by the GoI. Four forecasts are provided, two (F0 and F1) each for kharif and rabi for major crops at the state level and projected at the all-India level.

**Real Time Information Systems of Agriculture Sector (RTISA)**

Extend the FASAL project for generating more frequent forecasts, or RTISA, to support timely decision-making on exports, imports, logistics, etc., and combine econometrics with other scientific and statistical methods and field insights to create a comprehensive methodology and collaborative exercise with the various departments of the MoA&FW. Consultation with partners and the MoA&FW is in progress.

*(with Rajeshwor, M. and Rani, Yashika) 'Coordinated Horticulture Assessment and Management using Geoinformatics (CHAMAN)', funded by the Mahalanobis National Crop Forecast Centre under the MoA&FW, GoI. Initiated in 2017, updating database modelling for the year 2022-23.*

The Coordinated Horticulture Assessment and Management using Geoinformatics (CHAMAN) project provides early forecasts of the horticulture crop output using econometric modelling to the Mahalanobis National Crop Forecast Centre (MNCFC) under the MoA&FW every year. At this inception stage the project requires collections and the compilation of huge volumes of data and modelling trials. We have submitted six crop production forecasts reports (state-level and all-India) to the MNCFC and the MoA&FW. Also initiated district-level data analysis.

*(with Rajeshwor, M. and Rani, Yashika) 'Econometric Crop Yield Modelling with Satellite Remote Sensing under Space Utilization for Food-security and Agricultural Assessment and Monitoring (SUFALAM)' programme, funded by Space Applications Centre (SAC), Indian Space Research Organisation (ISRO) SAC. Initiated in 2019, District-level yield modelling using ML/Automation for Model.*

The Space Utilization for Food-security and Agricultural Assessment and Monitoring (SUFALAM) programme uses econometric modelling to provide forecasts of the price and crop output to the Space Applications Centre (SAC), Indian Space Research Organisation (ISRO).

*(with FASAL/CHAMAN Team) 'Land Use Changes from Agriculture to Urban Landscape'. Individually initiated in 2017 (under consultation).*

This short study examines the land use and cropping pattern changes taking place in the National Capital Region (NCR) which is becoming urbanised over time. Both secondary data and satellite maps created under FASAL are used comparatively.

**Prof. Chetan Ghate**  
Director, IEG



(with Mallick Debdulal, Deakin University and Bahl, Ojasvita, Indian Statistical Institute (ISI), Delhi) 'Redistributive Shocks and Monetary Policy with Heterogenous Agents'. Individually initiated in October 2017, likely date of completion December 2022.

Governments in emerging markets and developing economies (EMDE) routinely intervene in agriculture markets to stabilise food prices in the wake of adverse domestic or external shocks. Such interventions unexpectedly involve a large increase in the procurement and redistribution of food, or a redistributive policy shock. How does it impact the sectoral and aggregate dynamics of inflation and the distribution of consumption among rich and poor households? We build a tractable two-sector (agriculture and manufacturing) two-agent (rich and poor) New Keynesian DSGE model with redistributive policy shocks and calibrate the model to the Indian economy. We show that for an inflation-targeting central bank, consumer heterogeneity matters for whether monetary policy responses to a variety of shocks raises aggregate welfare or not. This result is robust to a variety of extensions of the model. Our paper contributes to the growing literature on understanding the role of consumer heterogeneity in monetary policy.

(with Das, Piyali, Independent Researcher and Bahl, Ojasvita, ISI, Delhi) 'Public Debt in India. A Neoclassical Approach', funded by Policy and Planning Research Unit, ISI, Delhi. Initiated in June 2021, likely date of completion April 2023.

We write down a general equilibrium model of public debt for an emerging market economy. We ask how government tax policy can raise the extent of informality in the labour economy and quantify the welfare losses associated with such policies.

(with Das, Piyali, Independent Researcher, and Halder, Subhadeep, ISI, Delhi) 'Public Debt during Covid'. Individually initiated in February 2021, likely date of completion March 2023.

**Dr. Gudakesh**  
Assistant Professor

'Nutritional Profile of India and Predictors of Poor Anthropometric Outcome in High-Burden States', funded by MoHFW, GoI. Initiated on March 1, 2022, likely date of completion September 30, 2022.

To understand the pace and impact of efforts being made to improve the nutritional profile, it is essential to analyse its anthropometric indicators and establish which determinants are positively associated with nutritional outcomes in each state. This study attempts to identify the socio-economic and demographic determinants of malnutrition and the district-level and regional variations in its prevalence. The findings of the study will help to identify the states and districts performing poorly. Their performance can be improved through targeted programmes. This study will also examine the role of existing programmes (Integrated Child Development Services (ICDS), Mid-Day Meals (MDM), public distribution system (PDS)) and household-level factors (food security, dietary diversity) in reducing malnutrition.



'Progress in Reducing Inequality in Maternal and Child Health Services in India', funded by MoHFW, GoI. Initiated on March 1, 2022, likely date of completion December 31, 2022.

It is critical to accelerate progress towards achieving the Sustainable Development Goals (SDG) by 2030, but that progress will be possible only if we focus on the most vulnerable members of society. Progress toward universal coverage should be measured in terms of not only national averages but also how all demographic groups are benefited. Antenatal check-ups,

institutional deliveries, postnatal care and immunisation have improved, but the spatial distribution and utilization of these services differ, because of the unequal distribution of resources and the variety of social, economic and cultural factors. To evaluate the efficacy of existing initiatives, and make recommendations to improve implementation, it is crucial to analyse maternal and child health care practices, and their rich-poor gap, and the drivers of the practices. This study will use data from the fourth and fifth rounds of the National Family Health Survey (NFHS), Comprehensive National Nutrition Survey and Longitudinal Ageing Study in India (LASI).

**Dr. Indrani Gupta**  
**Professor**



*(with Klugman, J, Ranjan, A, Barman, K, Roomaney, R) 'Responding to the Pandemic: How and Why Gender Matters'. Individually initiated in December 2021 under the Lancet Commission on Gender and Health, likely date of completion December 2022.*

*(with Klugman, J, Ranjan, A, Barman, K, Roomaney, R) 'Lockdowns, Gender and Health'. Individually initiated in December 2021, likely date of completion August 2022.*

These papers are background papers for the report of the Lancet Commission on Gender and Health, and look into the gendered dimension of the global lockdown and policies and practices that responded in a gender-sensitive manner during the pandemic.

*'Universal Access to Quality Contraception (UAQ)"/"SaraI" Project', funded by Population Services International. Initiated in November 2020, likely date of completion November*

*2023.*

This project, being carried out in Agra, Uttar Pradesh, attempts to understand the unmet need for contraceptives and how the private sector can be leveraged to provide married women affordable, good quality services. The IEG team will analyse the costing and cost-effectiveness of the new set of interventions.

*'Fiscal Restructuring and its Implications on Health Sector: An Analysis of State Budgets with Focus on UP and Bihar', funded by Bill and Melinda Gates Foundation. Initiated in October 2015, likely date of completion December 2023.*

Following the 14<sup>th</sup> Finance Commission's recommendations, and the Gol's subsequent acceptance, the government devolved taxes from the divisible pool to the states and, simultaneously, reduced the Plan outlay in the current Union budget (to accommodate the increased tax devolution). The project examines whether and how the changes ensuing over the years impacted programmes in the social sector, especially the health sector.

*(with Singh, Damini) 'Air Quality and Asthma in India: An Exploratory Study'. Individually initiated in March 2022, likely date of completion July 2022.*

This study empirically analyses the impact of air pollution on the occurrence of asthma. The study also explores whether asthma has determinants other than air pollution.

*(with Singh, Damini and Ranjan, Avantika) 'To What Extent Do WASH interventions Impact on Diarrheal Diseases in India?' Individually initiated in March 2022, likely date of completion September 2022.*

The study uses household data to understand the impact of water and sanitation interventions on the occurrence of diarrheal diseases.

**Dr. Shruti Jain**  
**Postdoctoral Fellow (FutureDAMS Project)**



*'Political Ecology of Large Dams in India', funded by FutureDAMS. Initiated on June 9, 2020, likely date of completion June 30, 2022.*

Hydropower projects are considered an energy transition pathway, and a cascade of projects is being constructed in the Himalayan states, specifically in Uttarakhand. The projects are triggering and aggravating climate disasters. And they are generating 'everyday disasters': water springs are disappearing, the aridity of agricultural fields is increasing and fissures are appearing in homes and fields. The study analyses the projects' social and environmental risks and impacts against the backdrop of climate change. The narratives and politics around the 5040 MW Pancheshwar Dam are also studied.

**Dr. Brajesh Jha**  
**Professor**

*'Decentralised Procurement Scheme for Procurement of Wheat and Paddy under Minimum Support Price including a Strategy for Crop Diversification in Haryana and Punjab', funded by MOA&FW. Initiated in September 2021, likely date of completion December 2022.*

The study consists of two parts. The first part, on the strategy for crop diversification in Haryana and Punjab, will be based on a review of studies on the subject. The second part of the study, on the decentralised procurement of cereals (paddy and wheat), will be a coordinated study based on primary information from the selected states of the country. The states selected for paddy are Andhra Pradesh, Jharkhand, Odisha, Chhattisgarh, and West Bengal, whereas the likely states for wheat are Bihar, Gujarat, Madhya Pradesh, and Uttarakhand. The state of Punjab is common to both paddy and wheat. A shift from centralised procurement of cereals to decentralised is expected to reduce the economic cost of procurement of cereals for the PDS. However, even after so many years of the announcement of decentralized procurement, its extension remains incomplete in large parts of the country. The study, therefore, assesses the functioning of decentralised procurement of wheat and paddy in the selected states in the year 2021.



**Dr. William Joe**  
**Assistant Professor**



*'Concurrent Monitoring and Technical Support for Anemia Mukht Bharat Programme, India', funded by UNICEF India. Initiated in January 2019, likely date of completion December 2022.*

This project monitors the strategy and the implementation of the Anemia Mukht Bharat programme, and its stock availability position and capacity-building approach, at various levels across the selected states. By reviewing the quarterly progress of the Anemia Mukht Bharat Cell at the state and district levels, and by reporting on issues relating to the establishment and implementation of the programme, the project also provides supportive supervision. Further, the project examines the drug procurement, logistics, distribution and availability at the state level; estimates and forecasts the requirement for all beneficiary target groups; and updates the key indicators of the performance of the programme on the

Anemia Mukht Bharat dashboard and web portal.

*'Policy Options to Address the Increasing Burden of Obesity', funded by Global Health Advocacy Incubator. Initiated in November 2021, likely date of completion August 2022.*

The current food environment exposes consumers to powerful food marketing, predominantly of foods that undermine healthy diets, and to inconsistent and often misleading nutrition labelling. Enabling consumers to make healthier dietary decisions, therefore, requires creating a food environment that promotes a healthy diet. Such a food environment includes nutrition labelling policies, implemented within complex systems, including the food system, that are affected by each political, legal, economic, cultural and ethical context. This study undertakes research and analysis with specific reference to policy options to address the increasing burden of obesity and non-communicable diseases in India.

*(All PRC staff) 'National Health Mission PIP Monitoring', funded by MoHFW, GoI. Initiated in April 2022, likely date of completion March 2023.*

The Population Research Centre (PRC), Delhi is involved in monitoring the quality of the National Health Mission (NHM) Programme Implementation Plans (PIP) assigned by the MoHFW. The PRC Delhi team visits the states and districts to seek information from programme officials on quality parameters and to interact with beneficiaries to understand how policies function at the ground level. The study uses a structured interview schedule to study the progress on the basis of priority action as suggested in the Record of Proceedings. The team collects the information at the primary level to analyse the key components of the NHM and submits the report to the MoHFW with key recommendations.

*'Yes to POSHAN', funded by Tata Trusts and VCF. Initiated in April 2022, likely date of completion August 2022.*

The YES! TO POSHAN Project is implemented in 30 selected villages of Visakhapatnam, an aspirational district in Andhra Pradesh identified by NITI Aayog, GoI. The project aims to promote dietary diversity among pregnant women and lactating mothers, and among children under five. This study assesses the dietary pattern and diversity of children under two, and of pregnant women and lactating mothers, in the project area; identifies gaps and challenges ahead of full-scale implementation; and recommends actions to bolster activities and impact.

*'Assessing Community Sanitary Complexes for System Strengthening', funded by UNICEF India. Initiated in October 2021, likely date of completion August 2022.*

This study examines the accessibility of community sanitary complexes and their utilisation patterns. The study analyses how well water, sanitation and health (WASH) facilities (water supply, toilet seats, urinals, hand washing units and power supply) function at community sanitary complexes, and it evaluates the change in the past year or since construction, whichever is earlier. The study will develop measures to effectively and sustainably manage community sanitary complexes, and it will recommend those measures to the central government, state governments and panchayati raj institutions.

*'Assessment of Existing Systems of the Department of Women & Child Development, Government of Odisha', funded by Azim Premji Foundation. Initiated in January 2021, likely date of completion June 2022.*

The study will collect information on the state-level efforts to implement the strategy. To collect information, the study will use data analytics; it will interview experts and officials at the department and district level and consult partners, and it will conduct secondary research and field visits. The study will also compare the state's practices to the national and global best practices, use the data to assess the systems used to implement the strategy and propose ways to strengthen the decision support system and improve the implementation.

**Dr. Sabyasachi Kar**  
**Professor**



*'Convergence Clubs in Indian States and their Determinants', funded by World Bank. Initiated on April 1, 2022, likely date of completion March 30, 2023.*

First, this study establishes that club convergence exists among states in India. Next, it attempts to identify the determinants of club membership, or the state-specific correlates of belonging to a relatively higher club.

*'States Diverging But Districts Converging? Reconciling the Indian Convergence Puzzle', funded by World Bank. Initiated in April 1, 2022, likely date of completion March 30, 2023.*

Several studies find that while states in India were exhibiting economic divergence, the districts within the states seemed to experience convergence. This study attempts to explain this apparently contradictory finding.

**Dr. Arup Mitra**  
**Professor**

*'Barriers to Employment'. Individually initiated in December 2021, likely date of completion December 2022.*

The study analyses the barriers to employment at the macro, enterprise and individual level and focuses on policy issues.

*'Mobility Study'. Individually initiated in December, 2020, likely date of completion December 2022.*

Is time-independent mobility in place? What factors determine such mobility? These are some of the key issues this study deals with. The study also examines the short-run (across quarters) and long-run mobility patterns.

*'Inter-sector Wage Differences'. Individually initiated in December 2021, likely date of completion December 2022.*

Why do wages vary by activity? (Why is a common labour market not in place?) A variety of micro and macro issues explain the heterogeneity in the labour market and deter the emergence of a uniform labour market. The study proposes to reflect on those issues.



**Dr. Chandra Sekhara Rao Nuthalapati**  
**Professor**



*'Start-ups with Innovations and Impact on Growth, Employment and Welfare', funded by ICSSR. Initiated in 2018, likely date of completion June 2022.*

In India, the number of start-ups has exploded over the past few years, and the country ranks third worldwide in the number of start-ups. The global experience is that the impacts of start-ups differ by spatial and temporal setting. This study attempts to find out the impact of start-ups in India on economic growth, employment and household welfare in terms of income, health and education, and by the provision of efficient delivery systems through secondary.

*'Innovations in Food Value Chains and Dynamics of Participation and Welfare Effects in India', funded by NABARD. Initiated in 2019, likely date of completion August 2022.*

Innovations have been driving transformations in food value chains in India in all the nodes from producer to consumer. Several new actors have emerged: food and agriculture start-ups; e-commerce and logistics firms; and organised retailers (supermarkets). The central government has set up the electronic National Agricultural Market (e-NAM), an online platform. Farmers participate in these value chains, and the results in disparate agro-economic conditions are mixed. But empirical research does not adequately capture the nascent nature of these transformations, and studies use too small a sample in a region or are confined to a single season. Evaluating the impact of these transformations on agriculture pan-India is difficult, therefore, especially because agriculture is dominated by smallholders. This study proposes to build longitudinal panel data, for policymakers to formulate policy and improve growth and equity in agriculture, by surveying again the sample of farmers that was surveyed in 2014-15.

*'Impact of Direct Procurement on Farmer Profitability, Employment and Consumption in India', funded by International Food Policy Research Institute (IFPRI). Initiated in 2021, likely date of completion December 2022.*

In the traditional agri-food system, retailers serve as intermediaries between producers and consumers. By linking producers directly to consumers, modern food value chains shorten the chain of intermediaries and change the modus operandi of traditional retailers. The value chains might improve the conditions of producers, consumers and other actors. The direct links emerging between producers and consumers impact profitability, transaction costs, employment and consumption. This study examines the impacts, and compares them with those in traditional markets, in the context of Covid-19 in India. The author conducted a longitudinal survey of farmers in Maharashtra and West Bengal in 2014; this study will use the dataset created then and collect primary data by surveying the farmers again, accounting for attrition and the changing ratios of traditional market and supermarket farmers.



**Dr. Basanta Kumar Pradhan**  
Professor

*'Updating the Modelling Studies on Greenhouse Gas Emission and Emission Intensity of Indian Economy Carried out by TERI, IRADe and the IEG Consortium', funded by the Ministry of Environment, Forest and Climate Change (MoEFCC), GoI. Initiated in July 2021, likely date of completion June 2022.*

**Dr. Pravakar Sahoo**  
Professor



*'India's G-20 Presidency: Trade for Growth and Prosperity', funded by Department of Commerce, Ministry of Commerce, GoI. Initiated in April 2022, likely date of completion December 2023.*

The project is meant to provide regular inputs in the form of issue notes, background papers, agenda papers, etc., to the Trade and Investment Wing for the G-20 Summit under India's presidency.

(with Timilsina, Govinda R and Dash, Ranjan K) *'Why Do Indian States Differ in Their Infrastructure Development?'* Initiated in April 2022, likely date of completion December 2023.



This study empirically analyses the role of various factors – economic, fiscal, demographic, social, institutional, political – to explain the inequality in infrastructure between states for 18 Indian states during the period from 2005 to 2019.

(with Timilsina, Govinda R and Dash, Ranjan K) *Rule of Law, Investment and Economic Growth: Evidence from the Indian States*. Initiated in September 2022, likely date of completion June 2023.

The study attempts to construct a Rule of Law index across states from 2004 to 2020 and examine the impact of the rule of law on investment and growth for the major Indian states.

(with Bal, Debi Prasad) *'Sovereign Debt Sustainability and Indian States: An Insight from Account Indicators and Model-Based Approach'*. Initiated in August 2022, likely date of completion January 2023.

This paper takes the account-based, rollover risk and model-based approaches to analyse the sustainability of the public debt of Indian states.

(with Bhavesh Garg, IIT Ropar) *'Are capital inflows expansionary or contractionary in emerging economies: evidence from disaggregated analysis'*, likely date of completion December 2022.

This study of 10 emerging economies tests whether the effect of gross capital inflows in emerging economies is expansionary or contractionary and whether the different types of inflow impact domestic output differently. And we conduct disaggregated analysis to identify the possibility of aggregation bias.

**Dr. Sakshi Saini**  
**Assistant Professor**



*'Movement, Traceability and Uses of Imported Palm Oil'*, funded by Ministry of Agriculture & Farmers Welfare, GoI. Initiated in October 2021, likely date of completion May 2022.

Palm oil is a low-cost, high-utility vegetable oil popular worldwide for its many end-use applications in the food and non-food industries. Palm oil has the largest share in the production, consumption and trade of edible oils. In India, the demand for palm oil has been rising, as have imports, because domestic production has not been able to meet the demand. India is the leading importer of palm oil in the world, importing 7.75 million metric tons, about 95 percent of the domestic consumption, in 2021-22. The study discusses the trends in palm oil production and trade in India; assesses the landing of imported crude palm oil and refined palm oil by port; and examines the end uses of imported crude palm oil and refined palm oil in the sectors of utilization.

**Dr. C.S.C. Sekhar**  
**Professor**

*'Identification of Nodal Markets for Price Monitoring'*, funded by Ministry of Agriculture & Farmers Welfare (MoAFW), GoI. Initiated in September 2021, likely date of completion May 2022.

Large and frequent movements in agricultural prices impact producers' income, consumers' economic access to food and governments' ability to plan exports / imports. To identify a set of nodal markets and monitor prices easily, the study conducts a systematic econometric analysis using the vector autoregressive (VAR) model, the vector error correction model (VECM), Granger causality tests and secondary data from the Agricultural Marketing Information System (AGMARKNET). The data is on weekly market arrivals and prices of tomato, onion and potato for the period from January 2010 to December 2019. The analysis identifies 23 leading/nodal markets: nine for tomato markets, eight for onion and six for potato.



**Dr. Suresh Sharma**  
**Professor**



*(with all PRC staff) 'NHM Delhi, Uttar Pradesh, Delhi, Meghalaya & Tripura Programme Implementation Plans (PIPs): 2021-22 Monitoring and Evaluation for 46 Districts', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion December 2022.*

The Population Research Centre (PRC), Delhi is involved in monitoring the quality of the National Health Mission (NHM) Programme Implementation Plans (PIP) assigned by the MoHFW. The PRC Delhi will visit 46 districts to monitor the progress of all programmes and policies running under the National Health Mission against the allocated Programme Implementation Plans (PIPs). Structured interview schedules are used to assess the progress on the basis of key conditionalities and incentive and roadmap for priority action as suggested in the Record of Proceedings.

*'Socio-Economic and Health Deprivations among Children from Single-Parent Families in India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

Within a sociological purview, the family is regarded as the most important social group for an individual and as the cornerstone of human society. While India continues to be dominantly identified with a two-parent family set-up, the number of single-parent families forms an essential part of the familial discourse. The NFHS is a population-based cross-sectional survey; after controlling for socio-demographic variables by utilising data from the NFHS 4 and 5, the study analyses the demographic and socio-economic profile of single-parent families in India and the association between single-parent family status and childhood deprivations.

*'Elderly Mental Health in India: Challenges and Way Forward', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

The population of the elderly in India is increasing, as are their physical and mental health concerns. By investigating the determinants, variety and patterns of mental illness among the elderly, this study attempts to help formulate a better geriatric mental health policy.

*'Composite Performance Measures of Health Service Utilisation in the Aspirational Districts of EAG States in India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

Healthcare interventions in India are targeted, but the utilisation of health services has always been suboptimal, particularly among the most vulnerable and underprivileged populations of Empowered Action Group (EAG) states. This study examines the utilisation of health services, specifically 12 key indicators of MCH and patient services, in the Aspirational Districts of the EAG states in India in 2020-21.

*'Prevalence and Predictors of C-section for First and Subsequent Birth Order in India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

This study aims to determine the prevalence of vaginal delivery, emergency C-section (unplanned) and elective C-section (planned) for the first and subsequent births (up to three) in India, and its socio-economic, anthropometric and lifestyle predictors, using the unit-level data of NFHS 4 and NFHS 5. The study conducts multivariate analysis to examine the correlates of elective and emergency C-section deliveries according to birth order. If the first birth is delivered through C-section delivery, the probability of C-section delivery may increase for subsequent births; and the concentration of elective C-sections might be higher for first birth deliveries and overweight women.

*'Profile and Predictors of Maternal and Child Health in Aspirational Districts of India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

The indicators of MCH in the Aspirational Districts have improved, but the inequality across the socio-economic strata is still assumed to be huge. Women who live in the Aspirational Districts in urban areas, or are from rich households or the general castes, or those who have a higher educational level, may rank higher on the key performance indicators than women in the same groups but not located in the Aspirational Districts. This study monitors the progress of the Aspirational Districts on MCH indicators towards the SDG-3 targets by analysing the secondary data of the NFHS 4 and NFHS 5 through geographic mapping, multivariate analysis and data tabulation.

*'Nutritional Status and Related Health Outcomes among the Elderly in India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

The health policy landscape in India has largely ignored nutritional risk among the elderly. The study uses data from the Longitudinal Ageing Study in India (LASI) to estimate the prevalence of malnutrition among the elderly and determine the differences by spatial and socio-economic characteristics; identify and profile the food-insecure cohort; and determine whether malnutrition is a predictor of their health risks and is significantly associated with health-related outcomes. The findings are expected to improve the recognition of the problem of nutritional risk among the elderly in India.

*'Teenage Pregnancy and Higher Unmet Need for Family Planning among Currently Married Adolescents in India', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

To address teenage pregnancy, we must comprehend it from an intersectional lens of gender and health and the determinants of the phenomenon in high-risk areas. This study will analyse the trends of teenage pregnancy by state and the determinants and socio-economic characteristics of early pregnancy and the unmet need for family planning. Using NFHS 5 data, and conducting multivariate analysis, the study will examine the levels of contraceptive use among currently married adolescents and the unmet need for family planning. The study will focus on intervention at different levels that would be a key strategy in persuading currently married adolescents to adopt family planning methods and delay childbirth.

*'Scenario of Induced Abortion in India: Reasons and Complications', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

Worldwide, a substantial proportion of pregnancies is resolved by abortion, but little empirical research has been conducted to understand why a person undergoes induced abortion. This study analyses the complex, interrelated reasons for induced abortion in India, and its socio-demographic predictors, methods, risk factors and complications. The study uses secondary data from the NFHS 5 to establish the interlinkages between abortion services and fertility decline.

*'Challenges of Covid 19 Waste Management: An Indian Perspective', funded by MoHFW, GoI. Initiated in March 2022, likely date of completion March 2023.*

Managing biomedical waste is one of the main ways to control infection. In India, 70 percent of the biomedical waste is treated in incinerators, and 30% is illegally dumped, including on the roads. This study provides policymakers a comprehensive assessment of the production and management of Covid-related biomedical waste and the challenges in managing it.

### **Dr. Deepak Varshney**

*'Covid-19, Emergency Free Food Assistance Scheme, and Food Prices: Evidence from a Natural Experiment in India'. Individually initiated in December 15, 2021, likely date of completion December 2022.*

*'Back to Square One: Exploring the Readoption of Older Agricultural Technologies'. Individually initiated on December 15, 2021, likely date of completion December 2022.*

**Dr. Archana Dang**  
**Junior SRT Fellow**



*(with Maitra, Pushkar, Monash University and Menon, Nidhiya, Brandeis University) 'Impact of Tax on Junk Food on Households' Demand for It'. Individually initiated in February 2022, likely date of completion February 2023.*

*(with Gupta, Indrani and Das, Mausumi) 'Covid-19 and Inequality in India'. Individually initiated in February 2021, likely date of completion November 2022.*

The study aims to quantify the differential impact of Covid on household spending.

*(with Mittal, Nitya, University of Gottingen)'Predicators of Overnutrition among Schoolgoing Children and Adolescents'. Individually initiated in December 2021, likely date of completion April 2023.*

The study examines how mothers' behavioural attributes are related to adolescents' bodyweight levels.

**Dr. Swati Sharma**  
**Postdoctoral Fellow**

*'Growth of Women in MSME: Role of Ancillarisation and Subcontracting'. Individually initiated in February 2022, likely date of completion October 2022.*

The recent empirical literature suggests that the organised manufacturing sector is cutting cost by practising feminisation and contractualisation. This study investigates how the practice affects women's participation in the labour force and their welfare by exploring a variety of data sources.



### 3.3 TRAINING PROGRAMMES

IEG has functioned as a centre for specialised teaching and training since its inception.

#### **IES Training Programme**

During 2021-22, the Institute of Economic Growth conducted four training programmes.

A total of 32 Officer Trainees attended the Probationary Training Programme for the 2019 batch of IES Officer Trainees. The programme, conducted virtually, was inaugurated on August 3, 2020 by Mr. Tarun Bajaj (Secretary, Department of Economic Affairs, Ministry of Finance) and Mr. Rajiv Mishra (Economic Adviser, Department of Economic Affairs, Ministry of Finance). The programme was concluded on February 5, 2021, and the valedictory programme was held on June 30, 2021.

The Induction-Level Training Programme for the 2021 batch of IES Promotee Officers began on September 6, 2021, and concluded on October 1, 2021. A total of 24 IES Promotee Officer Trainees attended the programme.

The Probationary Training Programme for the 2021 batch of IES Officer Trainees began on November 15, 2021 and concluded on April 1, 2022. A total of 15 IES Officer Trainees attended the programme. The programme was inaugurated by Mr. Rajiv Mishra (Economic Adviser, Department of Economic Affairs, Ministry of Finance). The valedictory programme was held on April 1, 2022. The Chief Guest was Dr. V. Anantha Nageswaran (Chief Economic Adviser, Department of Economic Affairs, Ministry of Finance).

The IEG FASAL team organized a (virtual) training programme on the 'Estimation of Crop Yield Model with Econometric and Hybrid Method using EViews' for SAC-ISRO peoples on February 3, 2022.



**Group Photograph of IES 2019 Batch Valedictory Function, on June 30, 2021.**



**Seventh Dr. K.E. Vaidyanathan Memorial Lecture organised by Indian Association for Social Sciences and Health in collaboration with the IEG, June 25, 2021.**



**Population Growth and Sustainable Development: Will the North South Global Debate still continue?, World Population Day seminar by Udoy Saikia (Flinders University, Australia) on July, 11, 2021.**

## IEG CONFERENCES, WORKSHOPS AND SEMINARS

The IEG introduced a Brown Bag Seminar Series and organised Distinguished Lectures and Panel Series under the Azadi ka Amrit Mahotsav (AKAM) Programme of the GoI.

### Azadi ka Amrit Mahotsav (AKAM) Distinguished Lectures/Panel Series

IEG-DEA Lecture on 'Monetary Policy in India: Recent Developments, Perspectives and Challenges', Indranil Bhattacharya (Director, RBI), January 28, 2022.

IEG-DEA Distinguished Lecture on 'India at 75', Arvind Panagariya (Columbia University), February 25, 2022.

### IEG Brown Bag Seminars

'Access to Schools and Literacy: Evidence from Rural India, Sandhya Garg (IEG), March 17, 2022.

'Future Market for Agricultural Commodities in India', Brajesh Jha (IEG), March 31, 2022.

### Workshops (IEG) through Zoom

'Dams, Development and Water', under the auspices of the FutureDAMS Consortium, April 27-28, 2021.

'The Seventh Annual Workshop of The Society of Economics Research in India', IEG DSE SERI workshop, July 17-19, 2021.

Summer Research Fellowship workshop, IEG, December 8, 2021.

### Lectures/Seminars Organised at the IEG

'The Chronopolitics of the Anthropocene', inaugural lecture of *Contributions to Indian Sociology* IEG-SAGE Lecture Series, Dipesh Chakrabarty (University of Chicago), October 8, 2021.

'The Impact of Climate Change on Economic Output in Chile', INSEE-IEG Lecture, by Carlos Madeira (Central Bank of Chile), March 23, 2022.

### Seminars/Webinars (IEG) through Zoom

'Breaking the Glass Ceiling for Women in the Manufacturing Sector: Evidence from Indian Garment Factories', Swati Sharma (IEG), April 1, 2021.

'Do Capital Inflows Lead to Expansionary or Contractionary Effect? Evidence from Emerging Countries', Bhavesh Garg (IIT Ropar) and Pravakar Sahoo (IEG), April 8, 2021.

'Drivers of Student Performance: Evidence from Higher Secondary Public Schools in Delhi', Deepti Goel (Azim Premji University), April 23, 2021.

'What Can(not) Explain the Gap? Evidence and Decomposition of Gendered Stream Choice in India', CDE (DSE)-IEG Seminar, Tridip Ray (ISI Delhi), Arka Roy Chaudhuri (Shiv Nadar University) and Komal Sahai (DSE-IEG Fellow), July 8, 2021.

'What's the Worth of a Promise? Evaluating the Indirect Effects of a Programme to Reduce Early Marriage in India', Shreya Biswas (BITS Pilani, Hyderabad Campus) and Upasak Das (University of Manchester) July 30, 2021.

'Coal Plants, Air Pollution and Anemia: Evidence from India', Pushkar Maitra (Monash University), August 6, 2021.

'Participatory Theatre Empowers Women: Evidence from India', Sattwik Santra (Centre for Studies in Social Sciences, Calcutta), August 13, 2021.

'Equity in the Time of Covid: Lessons from ASER 2020', Wilima Wadhwa (ASER Centre), August 13, 2021.

'Lack of Access to Clean Fuel and Piped Water and Children's Educational Outcomes in Rural India', CDE (DSE)-IEG Seminar, Pallavi Choudhuri (NCAER) and Sonalde Desai (University of Maryland), August 19, 2021.

'Intergovernmental Transfers and Convergence in Public Expenditure: Evidence from States in India', Sandhya Garg (IEG), September 10, 2021.

'Population, Human Capital, and Sustainable Development', by Wolfgang Lutz (Austria), September 10, 2021, at an international webinar organised by the PRC, IEG, on the occasion of the inauguration of the Digital Population Clock.

'Incorporating Social Welfare in Programme Evaluation and Treatment Choice', CDE (DSE)-IEG Seminar, Debopam Bhattacharya (University of Cambridge), September 17, 2021.

'The Long-run Development Impacts of Agricultural Productivity Gains: Evidence from Irrigation Canals in India', CDE (DSE)-IEG Seminar, Sam Asher (Johns Hopkins University), October 1, 2021.

'Multidimensional Poverty and Inclusive Growth in India: An Analysis Using Growth Elasticities and Semi-Elasticities', Suman Seth (University of Leeds), October 22, 2021.

'Monetary Incentives for Journal Publications: Evidence from a Natural Experiment', Tanika Chakraborty (IIM Calcutta), November 26, 2021.

'Net Zero and the Economy: Macroeconomic Implications for India', Renu Kohli (Independent Researcher), December 3, 2021.

'Clientelism and Ideology: The Rise of Hindu Nationalist Politics in a Former Left Stronghold', Sujata Visaria (Hong Kong University of Science and Technology), December 10, 2021.

'Examining the Transfer of Knowledge and Training to Smallholders in India', Deepak Varshney (IEG), January 21, 2022.

'Monetary Policy in India: Recent Developments, Perspectives and Challenges', IEG-DEA AKAM Lecture, Indranil Bhattacharya (RBI). January 28, 2022.

'To Jab or Not to Jab? A Study on Covid-19 Vaccine Hesitancy in India', Shagata Mukherjee (Ashoka University), February 11, 2022.

'Latent Factor Models for Causal Inference with and without Instrumental Variable', Souvik Banerjee (IIT Bombay), February 18, 2022.



'Can Cultural Links and Shared Language Transcend the Country Divide? Evidence from West Bengal (India) and East Bengal (Bangladesh) on Fertility Rates', IEG-CDE (DSE) Seminar, Ranjan Ray (Monash University), February 24, 2022.

'Gendered Demand for Environmental Health: Evidence of Complementarities from Stove Auctions in India', P.P. Krishnapriya (Duke University), March 4, 2022.

'What Lowered Inflation in India: Monetary Policy or Commodity Prices'? Pulapre Balakrishnan (Ashoka University), March 11, 2022.

'Revisiting the Language Experiment in India: Level Playing or Exacerbating Disparity'? Bharti Nandwani (IGIDR), March 25, 2022.

## **Panel Discussion (IEG)**

'Can Woman Farmers Outperform Male Farmers? Exploring Disabling and Enabling Factors in Africa and Asia', organised by Bina Agarwal for 'Equity, Sustainability and Prosperity in a Fractured World', International Economic Association Online World Congress, July 6, 2021.

Budget 2022, February 4, 2022, (panelists) Indrani Gupta, Basanta Pradhan, C.S.C. Sekhar and Pravakar Sahoo.

## **Miscellaneous**

'Remembering Professor V.K.R.V. Rao: IEG Journey Since 1958", exhibition organised by IEG Library, December 9-10, 2021.

Celebration of International Mother Language Day (Matrihasha Diwas) on 21st February, 2022 at the IEG.

## **Memorial Lecture (IEG) through Zoom**

Seventh Dr. K.E. Vaidyanathan Memorial Lecture organised by Indian Association for Social Sciences and Health in collaboration with the IEG, June 25, 2021.



**Society for Economic Research in India (SERI) Seventh Annual Workshop, at the IEG and Centre for Development Economics, Delhi School of Economics, July 17-19, 2021.**



**Coal Plants, Air Pollution and Anemia: Evidence from India, seminar by Pushkar Maitra (Monash University), August 6, 2021.**



**Population Clock Inauguration by Dr. Bharati Pravin Pawar, Hon'ble MoS, MoHFW, GoI on 10 September, 2021.**



**Equity in the Time of Covid: Lessons from ASER 2020, seminar by (Top Left) Wilima Wadhwa (ASER Centre), August 13, 2021.**



**The Chronopolitics of the Anthropocene, inaugural lecture of Contributions to Indian Sociology IEG-SAGE Lecture Series by (Clockwise from Left) Dipesh Chakrabarty (University of Chicago), October 8, 2021.**



**Multidimensional Poverty and Inclusive Growth in India: An Analysis Using Growth Elasticities and Semi-Elasticities, seminar by (Left) Suman Seth (University of Leeds), October 22, 2021.**



**Monetary Incentives for Journal Publications: Evidence from a Natural Experiment, seminar by (Left) Tanika Chakraborty (IIM Calcutta), November 26, 2021.**



**Net Zero and the Economy: Macroeconomic Implications for India, seminar by (Left) Renu Kohli (Independent Researcher), December 3, 2021.**



**Remembering Professor VKRV Rao: IEG Journey Since 1958, exhibition organized by IEG Library, December 9-10, 2021.**



**Clientelism and Ideology: The Rise of Hindu Nationalist Politics in a Former Left Stronghold, seminar by (Left) Sujata Visaria (Hong Kong University of Science and Technology), December 10, 2021.**



**Monetary Policy in India: Recent Developments, Perspectives and Challenges, IEG-DEA Lecture by Indranil Bhattacharya (Director, RBI), January 28, 2022.**



Budget 2022, panel discussion on February 4, 2022, (clockwise from bottom left) Indrani Gupta, C.S.C. Sekhar, Basanta Pradhan and Pravakar Sahoo.



Latent Factor Models for Causal Inference with and without Instrumental Variable, seminar by (Left) Souvik Banerjee (IIT Bombay), February 18, 2022.





**(Bangladesh) on Fertility Rates, IEG-CDE (DSE) Seminar by (Left) Ranjan Ray (Monash University), February 24, 2022.**



**India at 75, IEG-DEA Distinguished Lecture by, (Left) Arvind Panagariya (Columbia University), February 25, 2022.**



**What Lowered Inflation in India: Monetary Policy or Commodity Prices?, seminar by Pulapre Balakrishnan (Ashoka University), March 11, 2022.**



**Revisiting the Language Experiment in India: Level Playing or Exacerbating Disparity? seminar by (Right) Bharti Nandwani (IGIDR), March 25, 2022.**

## PUBLICATIONS

### 5.1 IEG WORKING PAPERS

Sharma, Swati, 'Gender and Workplace Interactions: Who is Likely to Lose?' 426/2021.

Kumar, Saroj, Kumar, Abhishek, Kumar, Rakesh and Joe, William, 'Social Demographics and Health Achievements: An Ecological Analysis of Institutional Delivery and Immunization Coverage in India', 427/2021.

Sekhar, C.S.C., 'The Recent Farm Laws in India: Rationale, Implications and Way Forward', 428/2021.

Kamila, Anshuman, 'Fiscal Dominance in India: Through the Windshield and the Rearview Mirror', 429/2021.

Dang, Archana and Gupta, Indrani, 'Obesity and its Impact on Covid Occurrence: Evidence from India', 430/2021.

Mitra, Arup and Raushan, Rajesh, 'Agglomeration Economies and Rural to Urban Migration: A District-Level Study based on 2011 Census Data', 431/2021.

Gupta, Indrani and Roy, Arjun, 'Including Musculoskeletal Diseases in the Health Policy Agenda in India: Evidence on Burden and Economic Impact on Indian Households', 432/2021.

Sahoo, Pravakar and Bishnoi, Ashwani, 'Impact of Outward FDI: Evidence from Emerging Economies for Policy', 433/2021.

Mitra, Arup and Tsujita, Yuko, 'Mobility at the Lower Echelons? Evidence based on Slum Household Panel Data from a Dynamic Indian City', 434/2021.

Sahoo, Pravakar, Dash, Ranjan Kumar and Choi, Yoon Jung, 'Do Absorptive Capacities matter for FPI-Growth Nexus? Evidence from Cross-country Analysis', 435/2021.

Sahoo, Pravakar and Bishnoi, Ashwani, 'Investment Behaviour in India: What Led to Investment Slowdown and how to Revive it?' 436/2021.

Mitra, Arup and Tripathi, Sabyasachi, 'Shedding Light on Unnoticed Gems in India: Small Towns' Development Perspective', 437/2021.

Ghosh, Nilabja, Rajeshwor, R. and Narayan, Hrishabh, 'Economy's Response to Rainfall and Economic Factors', 438/2021.

Sahoo, Pravakar and Bishnoi, Ashwani, 'Investment Slowdown in India: Role of Fiscal-Monetary Policy and Economic Uncertainty', 439/2021.

Sekhar, C.S.C. and Thapa, Namrata, 'Agricultural Market Imperfections and Farm Profitability in India', 440/2021.

Sahoo, Pravakar and Bishnoi, Ashwani, 'Drivers of Corporate Investment Slowdown in India: A Firm Level Analysis', 441/2021.

Garg, Sandhya and Gupta, Samarth, 'Financial Access and Gender Gap in Entrepreneurship and Employment: Evidence from Rural India', 442/2021.

Garg, Bhavesh and Sahoo, Pravakar, 'Do Different Types of Capital Inflows have Differential Impact on Output? Evidence from Time series and Panel Analysis', 443/2021.

Priyadarshini, D. and Kar, Sabyasachi, 'Central Bank Digital Currency (CBDC): Critical Issues and the Indian Perspective', 444/2021.

Mohapatra, Sonali and Madhusmita, 'Export Performance: A Study of Labour and Capital-Intensive Manufacturing Industries in India', 445/2021.

Kar, Sabyasachi, Bashir, Amaani and Jain, Mayank, 'New Approaches to Forecasting Growth and Inflation: Big Data and Machine Learning', 446/2021.

Sahoo, Pravakar and Dash, Ranjan Kumar, 'Differential Growth Impact of FDI on LICs, LMICs, and ECs: The Role of Absorptive Capabilities', 447/2021.

Chakravarty, Satarupa, Das, Sukanya and Das, Saudamini, 'Unreliable Public Water Supply and Coping Mechanisms of Low-Income Households in Delhi', 448/2021.

Kar, Sabyasachi and Jha, Debajit, 'Divergent Policies for Convergence Clubs: A Study of Post-Reform Indian States', 449/2021.

Sharma, Suresh and Chaudhary, Jyoti, 'Association between Time Use Behaviour and Health and Well-Being among Elderly: Evidence from the Longitudinal Ageing Study of India', 450/2022.

Das, Piyali and Ghate, Chetan, 'Debt Decomposition and the Role of Inflation: A Security Level Analysis for India', 451/2022.

## **5.2 WORKING PAPERS OTHER THAN IEG**

### **Vikram Dayal**

'COVID-19: Visualizing Peaks and Waves in Recorded Cases across the Globe', Date of Research Square, <https://doi.org/10.21203/rs.3.rs-651674/v2>, 19 Jul 2021.

(with Rahul, M.) 'R for Environmental Economics', December 6, 2021, SSRN.

'A Teaching and Learning Tool (web app) for Illustrating the Concept of Sampling Distributions in Econometrics', December 5, 2021, SSRN.

### **Swati Sharma**

'Understanding the Barriers to Women's Career Advancement in the Manufacturing Sector: A Diagnostic Study of Indian Garment Factories', IWWAGE Working Paper Series, December 2021.

## FACULTY: PUBLICATIONS

### 6.1 JOURNAL ARTICLES

#### Sangeeta Chakravarty

(with Grover, G. and Thakur A.K.) 'Estimation of Cure Fraction and Misclassification Probabilities using Continuous Time Hidden Markov Model, 2021', *Statistics and Applications*, 19(2): 127-138, 2021.

(with Grover, G. and Agarwal, S.) 'Association of Socio-economic and Demographic Factors with Covid-19 Related Health Outcomes in SAARC Nations, 2021', *Statistics and Applications*, 19(1): 367-386, 2021.

(with Rastogi R, and Pradhan, B.K.) 'Development Expenditure in Low-Income Indian States', *The Journal of Developing Areas*, 55(4): 235-247, Fall 2021.

(with Grover, G., Agarwal, S. and Deo, V.) 'Estimating Disability Adjusted Life Years using Survival Models in HIV/ AIDS Risk Groups', *Journal of Communicable Diseases*, 53(4): 36-47, 2021.

#### Mausumi Das

(with Shankha Chakraborty) 'Death and Capital', *Macroeconomic Dynamics*, 25 (6), 1472-1494, September 2021.

#### Saudamini Das

(with Jha, P. and Chatterjee, A.) 'Assessing Marine Plastic Pollution in India', *Economic and Political Weekly*, vol. LVII, (9): 57-63, February 26, 2022. <https://www.epw.in/journal/2022/9/special-articles/assessing-marine-plastic-pollution-india.html>

(with Mishra, A.) 'Adequacy of Social Assistance Schemes during the Covid-19 Lockdown: Evidence from Delhi Slums', *Economic and Political Weekly*, vol. LVI(51), 2021.

#### Purnamita Dasgupta

(with Martin, M., Sendra, O., Bastos, A., Bauer, N., Bertram, C., Blenckner, T., Bowen, K., Brando, P. M., Rudolph, T B, [Bustamante](#), M., Chen D., Cleugh, H., Woodcock, J.) 'Ten New Insights in Climate Science 2021: A Horizon Scan. *Global Sustainability*, Cambridge University Press, 2021.

(with Panda, Manoj, et. al.) 'Impact of Covid-19 on India: Alternative Scenarios for Economic and Social Development', *Journal of the Asia Pacific Economy*, 26:2, 319-343, Taylor and Francis, 2021.

'Climate Change: Raag Bhairavi at Glasgow COP26'. Commentary, *Economic and Political Weekly*, vol. 56(47), November 20, 2021.

## Vikram Dayal

'Emphasizing Visual Tools: Using R to Understand Dynamic Models of Biology and Epidemiology', *International Journal of Mathematical Education in Science and Technology*, March 11, 2022.

## Chetan Ghate

(with Dave, Chetan, Gopalakrishnan, Pawan and Tarafdar, Suchismita) Fiscal Austerity in Emerging Market Economies. *Studies in Nonlinear Dynamics and Econometrics*, 5(25), December 2021.

## Nilabja Ghosh

(with Chakravarty, Satarupa and Rajeshwor, M.) Understanding the Production Behaviour of Indian Spices: A Study of Coriander and Cumin. *International Journal of Tropical Agriculture*, 39 (1-2), 1-15, 2021.

[https://serialsjournals.com/abstract/27740\\_1\\_satarupa\\_chakravarty.pdf](https://serialsjournals.com/abstract/27740_1_satarupa_chakravarty.pdf)

## Indrani Gupta

(with Trivedi, Mayur, Jani, Vishal, Barman, Kanksha, Ranjan, Avantika, Sharma, Manas, Mokashi, Tushar) 'Costing of Health and Wellness Centres: A Case Study of Gujarat', *Journal of Health Management*, 24(1): 105-117, 2022.

## Shruti Jain

'Construction of Calamities in the Uttarakhand Himalaya', *Economic & Political Weekly*, 56(13), March 021. 'Repudiating Chipko Village's Identity and Existence', *Economic & Political Weekly*, 56(45-46), 2021.

## Brajesh Jha

'Some Salient Features of Farm Economy and Institutions for Increasing Farm Income', *Indian Journal of Agricultural Marketing*, 35(2), 2021.

## William Joe

(with Vishwakarma, Rinju, Patel, Narendra, Alambusha, Ruby, Kulkarni, Bharati, Yadav, Kapil and Sethi, Vani) 'Coverage of Iron and Folic Acid (IFA) Supplementation among Pregnant and Lactating Women, Children and Adolescents in India: Progress Under Anemia Mukht Bharat (AMB) Strategy, 2017-18 to 2019-20', *Health Policy and Planning*, 12; 37(5): 597-606, 2022.

(with Verma, Ajay Kumar) 'Relationship between Birth Spacing and Neonatal Deaths and Low Birth Weight in India from 1992 to 2016', *Demography India*, 50 (Special Issue), 2021.

(with Saini, Avi, Shukla, Ritwik, Kapur, Avani and Sethi, Vani) 'Improving Planning and Budgeting for Nutrition Interventions in the Health Sector: Evidence from the Anemia Mukht Bharat (AMB) Strategy of India', *Maternal and Child Nutrition*, 2021.

(with Kumar, A., Rajpal, S., Alambusha, R. and Sharma, S.) 'Can Anganwadi Services Strengthening Improve the Association between Maternal and Child Dietary Diversity? Evidence from Project Spotlight Implemented in Tribal-

Dominated Gadchiroli and Chandrapur Districts of Maharashtra, India', *PLOS One*, 2022.

(with Rajpal, S., Kumar, A., Alambusha R. and Sharma S.) 'Maternal Dietary Diversity during Lactation and Associated Factors in Palghar District, Maharashtra, India', *PLOS One*, 2021.

(with Ambade, Mayanka and Subramanian, S.V.) 'Children's Education and Level of Health Care Utilization among Parents: A Pooled Cross-sectional Study from National Population-based Survey in India', *GeroScience*, 2021.

(with Vijayan, Bevin, Ramanathan, Mala, Rangamani, Sukanya, Sandeep G. and Mishra, Udaya Shankar) 'Treatment and Rehabilitation of Stroke Patients in India: A Gendered Analysis based on Repeated Cross-sectional National Sample Surveys on Health, 2014 and 2019', *Health Care for Women International*, 2021.

(with Kumar, Abhishek, Rajpal, Sunil, Misra, Archa, Alambusha Ruby, Sharma, Smriti and Subramanian, S.V.) 'Infrastructure for Delivery of Integrated Child Development Services (ICDS) and Uptake of Pre-school Education Services: Insights from Palghar, India', *Journal of Development Policy and Practice*, May 13, 2021.

(with Smita, Rajpal, S. and Lu, S.Y.) 'Why Market Orientation Matters for Agriculture and Fishery Workers? Unravelling the Association between Households' Occupational Background and Caloric Deprivation in India', *BMC Public Health*, 21, 681 (2021).

## **Arup Mitra**

(with Kumar, Neeraj) 'What Causes Poor Child Health in India? Reflections from NFHS-5'. *International Journal of Child and Adolescent Health*, 14(3): 261-268, 2021.

'Does the Services Sector Encourage Migration and Reduce Poverty?' *Indian Journal of Labour Economics*, March 18, 2022.

'Mobility as Capability: Women in the Indian Informal Economy', review article in *Developing Economies*, 2022.

'Sustainable Urbanisation in India: The Informal Sector Perspective', *Labour & Development*, vol. 28, issue 2: 92-107, December, 2021.

'Technology, Productivity Growth and Productivity-employment Trade-offs" published in *Productivity: A Quarterly Journal of the National Productivity Council*, vol. 62, Issue 2: 103-111, July 2021- Sep 2021.

(with Singh, Guru Prakash and Shrivastav, Puneet Kumar) 'How Unstable are the Sources of Livelihood? Analysis Based on Periodic Labour Force Survey 2017-18 Data', *Economic and Political Weekly*, 56 (31), July 31, 2021.

(with Chhetri, Bikash) 'Assessing Impact of Women's Health on Poverty based on Evidence from Nepal, International', *Journal of Child Health and Human Development*, 14 (1), 2021.

(with Parida, P.C. and Pradhan, Kailash Ch.) 'The Missing Middle Phenomenon in Indian Manufacturing Sector: Myths or Realities?' *Journal of Economics and Development*, April 6, 2021.

(with Shrivastav, Puneet Kumar) 'Reliability of PLFS 2019-20 Data', *Economic and Political Weekly*, 56(39): 18-21, September 25, 2021.

## **Chandra Sekhara Rao Nuthalapati**

(with Dev, S. Mahendra and Sharma, Rajeev) 'Supply-Side Problems in Food Loss and Waste: Issues in Mitigating through Cold Chain', *Economic and Political Weekly*, 57(14): 51-61, 2022.

(with Thomas, Reardon, Heiman, Amir, Lu, Liang, Vos, Rob and Zilberman, David) "Pivoting" by Food Industry Firms to Cope with Covid-19 in Developing Regions: E-Commerce and "Copivoting" Delivery Intermediaries', *Agricultural Economics*, 52(3): 459-475, 2021. <https://doi.org/10.1111/agec.12631>

(with Thomas, Reardon, Belton, Ben, Liverpool-Tasie, Saweda, Lu, Liang, Tasie, Oyinkan and Zilberman, David) 'E-Commerce's Fast-Tracking Diffusion and Adaptation in Developing Countries', *Applied Economic Perspectives and Policy*, 43(2): 1-17, 2021. <https://doi.org/10.1002/aep.13160>

## **Basanta Kumar Pradhan**

(with Ghosh, Joydeep) 'A Computable General Equilibrium (CGE) Assessment of Technological Progress and Carbon Pricing in India's Green Energy Transition via Furthering its Renewable Capacity', *Energy Economics*, 106, 2022.

(with Ghosh, Joydeep) 'Covid-19 and the Paris Agreement Target: A CGE Analysis of Alternative Economic Recovery Scenarios for India', *Energy Economics*, 103, 2021.

(with Ojha, Vijay P. and Ghosh, Joydeep) 'The Role of Public Expenditure on Secondary and Higher Education for Achieving Inclusive Growth in India', *Metroeconomica*, 73 (1): 49-77, 2021. <https://dx.doi.org/10.1111/meca.12353>

(with Rastogi, Rashmi and Chakravarty, Sangeeta) 'Development Expenditure in Low-income Indian States', *Journal of Developing Areas*, 55(4), Fall 2021.

## **Pravakar Sahoo**

'Impact of Outward Foreign Direct Investment: Evidence from Asia', *Journal of Policy Modeling*, 43: 1131-1148, 2021.

## **C.S.C. Sekhar**

'Price or Income Support to Farmers: Policy Options and Implications', *Economic and Political Weekly*, LVII (12), March 19, 2022.

## **Suresh Sharma**

(with Bhalla, Purva) 'Socio-Demographic Differences and Anthropometric Variations in Anemia Prevalence amongst Out of School Adolescent Girls: Evidence from NFHS-4', *Health and Population: Perspectives and Issues*, 45 (1): 1-16, 2022.

(with Sharma, Anshita) 'Trends in Delivery of Family Planning Services during Covid-19 Pandemic in Selected States of India', *IER Journal of Health & Demography*, 7 (2), January 2022.



## Deepak Varshney

(with Joshi, Pramod Kumar, Roy, Devesh and Kumar, Anjani) 'Understanding the Adoption of Modern Cultivars in India: Adoption Probability and Use Intensity', *Journal of Agriculture and Resource Economics*, 47(1): 167-189, 2022.

(with Chatterjee, Urmila and Martin Rama) 'Unpacking India's Covid-19 Social Assistance Package', *Economic and Political Weekly*, LVII (19), 2022.

## Salman Haider

(with Ansari, Mohd. Arshad and Akram, Vaseem) 'A Link between Productivity, Globalisation and Carbon Emissions: Evidence from Emissions by Coal, Oil and Gas', *Environmental Science and Pollution Research*, 33826-3843. January 15, 2022. <https://link.springer.com/article/10.1007/s11356-022-18557-9>,

(with Ansari, Mohd., Kumar, Pushp, Kumar, Siddharth and Akram, Vaseem) 'Main Determinants for Ecological Footprint: An Econometric Perspective from G20 Countries', *Energy, Ecology and Environment*, 7, 250-67, 2022. <https://link.springer.com/article/10.1007/s40974-022-00240-x>

(with Akram, Vaseem) 'A Dynamic Nexus between Covid-19 Sentiment, Clean Energy Stocks, Technology Stocks and Oil Prices: Global Evidence', *Energy Research Letters*, 3 (3), March 15, 2022. <https://doi.org/10.46557/001c.32625>

## 6.2 BOOK CHAPTERS

### Saudamini Das

'Valuing the Role of Mangroves in Storm Damage Reduction in Coastal Areas of Odisha'. In: Enamul Haque A., Mukhopadhyay P., Nepal M., Shammin M.R. (eds.) *Climate Change and Community Resilience*. Springer, Singapore, 257-73. October 2022. [https://doi.org/10.1007/978-981-16-0680-9\\_17](https://doi.org/10.1007/978-981-16-0680-9_17)

### Mausumi Das

(with Chakraborty, Shankha) 'The Long Shadow of Epidemics' in *The Covid-19 Pandemic India and the World Economic and Social Policy Perspectives* (eds.), Routledge, India, September 21, 2021.

### Nilabja Ghosh

(with Rajeshwor, M., Singh, Alka and Chakravarty, Satarupa) 'A Data-Analytical Way of Estimating Rice Crop Yield: Economic and Water Related Causative Factors', in (eds.) Krishna Vadrevu, Thuy Le Toan, Shibendu Shankar Ray and Chris Justice, *Remote Sensing of Agriculture and Land Cover/Land Use Changes in South and Southeast Asian Countries*. Springer. 2022. <https://link.springer.com/book/9783030923648U>

### Arup Mitra

'Labour in the Process of Development in "Role of Labour in India's Development"' (Publication to Commemorate 'Azadi ka Amrit Mahotsav') by V.V. Giri National Labour Institute, 2022.

### Pravakar Sahoo

'Do Absorptive Capacities Matter for FPI-Growth Nexus? Evidence from Cross-country Analysis', in (ed) Yashimo, *Studies in International Economics and Finance: Essays in Honour of Prof. Bandi Kamaiah*, Springer, 2022.

## 6.3 BOOKS/EDITED VOLUMES

### Arup Mitra

(with Kumar, Neeraj). 'Health of the Children: NFHS-5'. New York: IndraStra Global. 2021.

(with Saudamini Das and others). 'Climate Change, Livelihood Diversification and well-being: The Case of Rural Odisha', Springer, 2021.

## 6.4 OTHER PUBLICATIONS

### Archana Dang

'Role of Time Preferences in Explaining the Burden of Malnutrition: Evidence from Urban India – Podcast with Shruti Rajagopalan on Ideas of India', 2021.

'Covid-19: Does Obesity Play a Role? Ideas for India', 2021.

### Arup Mitra

(with Singh, Jitender). 'How Many Jobs Were Lost in Urban India During the Lockdown'? *Ideas for India*, April 27, 2021.

## 6.5 SELECTED MEDIA ARTICLES/INTERVIEWS BY IEG FACULTY

### Saudamini Das

'Why Covid Mortality Rate is Low in Some States: State that Fared Better on Sustainable Development Goals Have Better Managed the Pandemic', *The Indian Express*, July 12, 2021.

<https://indianexpress.com/article/opinion/columns/why-covid-mortality-rate-is-low-in-some-states-7401406/>

### Vikram Dayal

'Quantitative Economics with R', Springer Nature video, online June 9, 2021.

<https://link.springer.com/video/10.1007/978-981-16-3434-5>

### Oindrila De

(with Mausumi Das and Zoya Khan) 'The Long Shadow of the 2020 Delhi Riots', *The Indian Express*, March 17, 2022.

### Chetan Ghate

Interview in *Business Standard*, August 31, 2021.

### Indrani Gupta

'Health as a Human Right: Action Aid', News X. Panel discussion, August 8, 2021.

### Shruti Jain

'A Mountain of Concern', *The Telegraph*, March 2022.

'Uttarakhand Polls: Concerns of Hill Areas Find No Mention in Parties Development Agendas', *The Wire*, February 2022.

### Brajesh Jha

'The Increase of Convergence in MGNREGA', *Agri-Alerts*, 24, pp. 2-4, September 2021.

'MGNREGA for a Resilient Rural Economy, a Down to Earth Annual, State of India Environment', pp. 454-455, 2022.

'Annual Budget: What it holds for Agriculture'? *Prabhat Khabar*, February 2, 2022.

### William Joe

'NFHS Shows Stunting Increased in 'Better-performing' Kerala, Goa. India must not Lose Focus'

<https://theprint.in/opinion/nfhs-shows-stunting-increased-in-better-performing-kerala-go-india-must-not-lose-focus/566319/>

'Putting Food at the Centre of India's Nutrition Agenda'

<https://www.thehindu.com/opinion/op-ed/putting-food-at-the-centre-of-indias-nutrition-agenda/article33358244.ece>

'Understanding why Kerala's COVID Caseload Remains High'

<https://indianexpress.com/article/opinion/columns/understanding-why-keralas-covid-caseload-remains-high-7481081/>

## **Sabyasachi Kar**

'Could Central Bank Digital Currencies Help Countries Bypass Sanctions?' *Bloomberg Quint*.

'Correct design can ensure CBDCs don't destabilise banks', in *The Hindustan Times*.

'Designing resilient economic institutions', in *The Hindustan Times*.

*Interview on TV etc.*

Interviewed by Latha Venkatesh, CNBC-TV-18, November 2021.

## **Pravakar Sahoo**

'Two Cheers for India- UAE Free Trade Deal: Trade and Investment can Expand, Given the Complementarities, but Rules-of-Origin Issues Need to be Monitored', *Hindu BusinessLine*, February 28, 2022.

'The Way Forward in US-India Economic Ties', *The Hindu Business Line*, December 6, 2021

'A Bigger Step Forward: A High-Tech Mega Plan will Ensure Timely Execution of Infrastructure Projects', *The Indian Express*, December 21, 2021.

## **C.S.C. Sekhar**

'Budget Offers Green Shoots for Agri Sub-sectors', *The Hindu*, February 21, 2022.

## 7. FACULTY: OTHER ACADEMIC CONTRIBUTIONS, LECTURES, TRAININGS, CONFERENCES, VISITS

### Mausumi Das

Joined the Editorial Board of the *Journal of Economic Asymmetries* (Elsevier) as Associate Editor in 2021.

### Saudamini Das

#### Lectures

Took eight lectures on Consumer Choice and Theory of Cost for Officer Trainees of 96th Foundation Course at the Lal Bahadur Shastri National Academy of Administration, Mussoorie, February 14-18, 2022.

Two lectures as a resource person in ICSSR sponsored proposal writing workshop at Council for Social Development, Hyderabad, March 30, 2022.

- (i) *Preparing Research proposal for Funding.*
- (ii) *Preparing Research proposal for Writing Ph.D. Thesis.*

'Measuring the Coping Cost of the Urban informal Sector to Extreme Heat through Time Allocation and Income Loss', lecture at IIT, Tirupati during Climate Change workshop on Tackling Climate Change through Urban Resilience: Role of Institutions and Public Policies in Canada and India, March 25, 2022.

'Estimating Interdisciplinary Model in Ecological Economics Research', lecture at the International Workshop on Research Methodology and Doctoral Colloquium, Department of Economics, University of Kerala Kariavattom Campus, Thiruvananthapuram, Kerala, January 28, 2022.

'Mangroves for Coastal Resilience against Natural Disasters', lecture at the CIFOR & WII Workshop on 'Mangrove Research in Indian Sub-Continent: Recent Advances, Knowledge Gaps and Future Perspectives' December 9, 2021.

'Economics of Conservation of Endangered Birds: The case for Gyps Vultures in India', presentation at the EfD Annual Conference, November 16, 2021.

'Assessment/Forecasting of Marine Plastic Pollution in India', lecture at the Refresher Course on Economics & Econometrics, UGC – Human Resource Development, Centre, Bharathiar University, Coimbatore - 641 046, November 16, 2021.

'Concept of Total Economic Valuation in Forestry', lecture at In-service SFS officers and Senior FRO's one-week online training course on Ecosystem Approach to Forest Management, Central Academy for State Forest Service, Ministry of Environment, Forest and Climate Change, GoI P.O. New Forest, Dehradun, November 15, 2021.

'Evaluating Disaster Management Policy Through Evacuation Decisions: Why social heterogeneity can be a limiting Factor?', Open Lecture at the Jindal School of Government and Public Policy, October 6, 2021.

'Cyclone Risk Management, Coastal Vulnerabilities and Adaptation', lecture at the Refresher Course in Environmental Studies, UGC-Human Resource Development Centre, Jawaharlal Nehru University, Delhi, September 29, 2021.

'Mid-Term Evaluation of Climate Change Adaptation Projects funded from UNFCC Adaptation Fund', presentation at the Department of Economic Analysis and Research (DEAR), NABARD HO, Mumbai, September 17, 2021.

'Evaluation of Regenerated Forests: Contribution of Planted Mangroves of Gujarat as Nursery and Habitat for Artisanal and Commercial Fishery', lecture at the IFS Officers Training Workshop on 'Future of Aquatic and Marine Wildlife Based Livelihoods', Wildlife Institute of India, Dehradun, August 26, 2021.

'Mangrove Conservation as a Public Policy Priority in India', lecture at the Green SOCIETY, Jesus and Mary College, University of Delhi, August 25, 2021.

'Measuring L&D from extreme events: Modelling for structural damage from storms', lecture at the IIT Tirupati, OECD, NIDM organised webinar on 'Methodological Challenges in Assessing Socio-Economic Losses and Damages from Climate Change in India', May 25, 2021.

'Coastal BIOSHIELDS in cyclone Disaster Risk Reduction', lecture at the Indian Ocean Rim Association Blue Carbon Hub think tank meeting on 'Nature-based Solutions for Coastal Risk Reduction', May 25, 2021.

'Social Cost Benefit Analysis', lecture at Quality Improvement Programme short-term course on Quantitative Approaches to Decision Making, IIT Kanpur, March 13, 2021.

## **Vikram Dayal**

Taught in IES training programme at IEG.

Taught with Rahul, M., INSEE Workshop on R for Ecological Economics, online. September 20, September 22, and September 24, 2021.

Taught with Heena Gaude, Enamul Haque, A.K., Mukhopadhyay, Pranab and Nepal, Mani 'Research Methods in Environmental and Natural Resource Economics Using R', Teaching Workshop for SANDEE, May 17 to May 21, 2021.

Keynote presentation: What can you do with R? Shri Ram Research Festival, The Economics Society, Shri Ram College of Commerce, University of Delhi, November 19, 2021.

## **Oindrila De**

Taught microeconomics to IES Probationary Officers from January 2022 to March 2022.

Taught microeconomics to IES Promotee officers in September 2021.

Taught international trade at the 96th Foundation Course at Lal Bahadur Shastri National Academy of Administration, Mussoorie, February 16-17, 2022.

## **Sandhya Garg**

Taught a course on spatial econometrics to IES trainees in a set of six lectures scheduled from January 17, 2022 to February 3, 2022.

## **Papers Presented**

'Financial Access and Gender Gap in Entrepreneurship and Employment: Evidence from Rural India' presented at the following conferences:

International Conference on Contemporary Issues in Economics at XIM, Bhubneshwar, (Feb 4-5<sup>th</sup> and 7<sup>th</sup>, 2022).

Department Seminar at Xavier's School of Economics, Bhubneshwar, December 10, 2021.

Annual conference of Development Studies Association, June 28–30, 2021.

Intergovernmental Transfers and Convergence in Public Expenditure: Evidence from States in India Presentation at NIPFP-IIPF International Conference, June 29-30, 2021.

### Discussant of Paper

Served as discussant at NIPFP-IIPF International Conference, June 29-30, 2021.

### Session Chair

Chaired one session in International Conference on Contemporary Issues in Economics at XIM, Bhubneshwar, (Feb 4-5<sup>th</sup> and 7<sup>th</sup>, 2022).

### Chetan Ghate

Taught Masters / Ph.D. Level Courses at ISI Delhi: Macroeconomics 1 (September-December 2021), and Global Macroeconomics (February – June 2022)

#### Workshops/Conferences organised

Workshop on the Mahalanobis Growth Model, New Delhi, March 25, 2022, Goa Business School, Goa University. Virtual.

Workshop on the Mahalanobis Growth Model, New Delhi, March 13, 2022, Meghalaya Economics Association. Virtual.

Workshop on the Mahalanobis Growth Model, New Delhi, November 26, 2021, IIC Delhi.

Chief Organiser (with Pami Dua, DSE), BRICS-NU Conference on Growth and Development, November 2021.

Chief Organiser (with Pami Dua, DSE), International Webinar on Covid-19 Pandemic and Revival Strategies of Global and BRICS Economies. BRICS NU. Organised by DSE, August 2021.

### Keynote Lecture

Invited Distinguished Speaker. Citi Virtual Global Macro Forum, October, 2021.

Late Dr. G. V. Kamat Helekar Memorial Lecture, Goa Business School, Goa University, March 25, 2022.

### Others

(Chaired) AKAM Distinguished Lecture by Arvind Panagariya at IEG, February 2022.

### Papers Presented (virtual)

BRICS-NU Conference on Growth and Development, November 2021.

Philippines Economic Society Annual Conference, November 2021.

## Discussant (virtual)

'Inflation Targeting in India: An Interim Assessment' by Eichengreen et al., 8<sup>th</sup> Annual ABFER Conference, June 2021.

(Panellist) for Webinar on Covid-19 Pandemic and Revival Strategies of Global and BRICS Economies. BRICS NU, August 2021.

## Panellist

Waddesdon Club of Finance Leaders Meeting. Chatham House, London, U.K. July 2021. Virtual.

## Nilabja Ghosh

### Papers Presented

'Early Estimation Crop Production in India: Data-based and Hybrid Approaches' Organised by Anvay, the first edition of the Annual Analytics Conclave, IIM Sirmaur, hosted by Datonics, March 6, 2022.

'Development of Real Time System for Crop Production Forecasting' under the Chairmanship of Additional Director General (Statistics), DAC&FW at Krishi Bhawan New Delhi, 2021, October 5, 2021.

'Crop Area and Yield Modelling and Futuristic Approaches for Crop Forecasts' meeting held at Institute of Economic Growth (IEG) through online, October 21, 2021 (Virtual mode).

Presented Report of the Subgroup 4 'Crop Area and Yield Modelling & Futuristic Approaches for Crop Forecasts' meeting held on 21st October for finalization of SoP of the Real Time Crop Production Forecasting System, October 21, 2021.

'Early Estimate of Crop Yield: FASAL/RTISA Model with Economic and Weather Variables' as invited by IMD, under the Chairmanship of Secretary, Dr. M. Rajeevan, Ministry of Earth Science, GoI, June 4, 2021.

'Present System of Crop Production Estimates/Forecasting', at Krishi Bhawan through VC, June 29, 2021.

## Discussant

'Development of Real Time System for Crop Production Forecasting' in the 3<sup>rd</sup> task force meeting under the Chairmanship of Additional Director General (Statistics), DAC&FW at Krishi Bhawan New Delhi, January 5, 2022.

'Development of Real Time System for Crop Production Forecasting' in the 4<sup>th</sup> task force meeting under the Chairmanship of Sr. ESA, DES at Krishi Bhawan New Delhi, March 3, 2022.

'Development of Real Time System for Crop Production Forecasting' under Chairmanship of Additional Director General (Statistics), DAC&FW at Krishi Bhawan, New Delhi, October 26, 2021.

'Technical issues on NDVI and other Agronomic Variables for IEG Forecast Model', Krishi Bhawan, through online video conferencing, May 20, 2021.

Judged (invited) for The Financial Literacy Cell 'Vittshala- Shri Ram College of Commerce, Delhi University, April 18, 2021.

'Crop Weather Watch Group meeting every Friday through physical/video conferences, every Friday at 2.30 p.m.



## **Indrani Gupta**

Delivered lecture in ISID, Delhi, 'How to Write and Publish Research Papers in Peer-Reviewed Social Science Journals', January 11, 2022.

Delivered lecture for PRS, Legislative Assistants to Members of Parliament (LAMP) Fellows on 'Health Financing: Prospects and Prognosis in a Pandemic-hit World', September 2021.

## **Papers Presented**

'Do Gender Budgets Lead to Better Health Outcomes' at IGIDR, December 7, 2021.

'Spending on Health, Education and Social Welfare: Budget 2022-23' at IEG, February 4, 2022.

'Do Gender Budgets Lead to Better Health Outcomes'? at Lancet Commission on Gender and Health Seminar Series, September 15, 2021.

## **Discussant**

'Health Sector in the Context of the Union Budget' organised by University of Rajasthan, February 3, 2022.

Panellist in workshop on 'Health, Food, Nutrition and Data', Ashoka University, December 7, 2021.

## **Shruti Jain**

Presented a paper on 'Hydropower Projects in Uttarakhand: Pancheshwar Dam as a Disaster-in-the-Making', presented in a workshop 'Dams, Development and Water', organised by Institute of Economic Growth (IEG), Delhi and University of Manchester, April 27-28, 2021.

Invited to speak on 'Climate Change and Capitalism', in a national webinar organised by Indian Youth Federation on Earth Day, April 22, 2021.

Invited as a speaker for the seminar 'Construction of Calamities in Uttarakhand', Department of Environmental Studies, Ashoka University, February 23, 2022.

## **Brajesh Jha**

Gave lecture on 'Building Resilient Societies for Future: The Promise of MGNREGS', CSE Annual Conclave at Anil Agrawal Environment Training Institute, Nimli, Rajasthan, September 24, 2021.

Presented a paper in the seminar on 'Development, Migration and Productivity in Agriculture', Patliputra School of Economics, Patna, December 17, 2021.

## **William Joe**

Online lecture: Academic Writing, Sardar Patel Institute of Economic and Social Research, Ahmedabad, March 2022.

## **Sabyasachi Kar**

### **Discussant**

Panel Discussant at Aarambh 3.0, organised by Lal Bahadur Shastri National Academy of Administration, January 2022.

Panel Discussant at SBI Banking and Economic Conclave, 2021.

Chaired inaugural lecture at the conference on 'Big Data and Data Analytics for Public Policy' organised by the Mumbai School of Economics, March 2022.

Took classes on “Growth Episodes and Transitions in India” in a ICSSR funded capacity building workshop organised by Centre for Development Studies (CDS) in July, 2021.

## **Arup Mitra**

Taught in IES training programme at IEG.

## **Basanta K. Pradhan**

### **Papers Presented**

(with V.K. Chetty) 'Role of the Middle Class in Human Capital Investment in the Short and Long Run' at the Royal Economic Society Conference organised by the Queen's University Belfast, UK, April 8-12, 2021.

(with J. Ghosh) Made presentations on 'An Assessment of India's NDC Targets Using A CGE Model' at the meetings organised by the Ministry of Environment, Forest and Climate Change on updating the modelling studies on greenhouse gas emission and emission intensity of Indian economy carried out by TERI, IRADe and the IEG consortium held on August 19, September 3, September 21 and September 24, 2021.

(with Joydeep Ghosh) 'Covid-19 and the Paris Agreement Target: A CGE Analysis of Alternative Economic Recovery Scenarios for India' at the Energy Modelling Forum (EMF) 36 Final Workshop on November 18, 2021.

### **Discussant**

Discussant for the paper Sustainable Forest Management Sectoral Linkages and Employment Policy: A General Equilibrium Analysis by Srijita Ghosh and Kausik Gupta at the INSEE Conference, December 16, 2021.

### **Panellist**

Panellist on Macro aspects of Budget 2022-23 at the IEG Budget Panel, February 4, 2022.

## **Sakshi Saini**

### **Paper Presented**

'Equity Mispricing and Monetary Policy: Should Central Banks 'Lean Against the Wind'?' presented at 7<sup>th</sup> International Conference on Empirical Issues in International Trade and Finance at IIFT, Kolkata, December 16-17 2021.

## **C.S.C. Sekhar**

### **Panellist**

'Discussion on Union Budget 2022-23' organised by the Krishi Jagran, February 1, 2022.

'Discussion on Union Budget 2022-23' organised by the NITI Aayog Chair, University of Rajasthan, February 3, 2022.

'Discussion on Union Budget 2022-23' organised by IEG, February 4, 2022.

'Discussion on Union Budget 2022-23' organised by the Impact and Policy Research Institute, February 5, 2022.

Delivered a talk 'Agricultural market imperfections in India', Refresher Course in Economics, Jawaharlal Nehru University, September 29, 2022.

## **Archana Dang**

Mentored IEG summer fellows 2021 (June 2021-Nov 2021) - Aarti Malik (Delhi School of Economics) and Meet Gupta (ISI): Labour Market Success and Parental Education: Evidence from Early Labour Market Candidates.

Seminar Coordinator IEG.

### **Discussant**

Discussant at the 11th biennial conference of INSEE, December 2021.

## **Swati Sharma**

Mentored two groups under IEG Summer Research Fellowship (April 2021 to November 2021):-

Aakriti Rana and Sagar Uppal, IEG Summer Research Fellowship 2021: 'Disproportionate Impact of Covid-19 on Women Academicians and Researchers'.

Anchal Poddar, Ritapriya Bandyopadhyay and Tanvi Mathur, IEG Summer Research Fellowship 2021: 'The Emergency Credit Line Guarantee Scheme (ECLGS): A study of Indian MSME'.

### **Paper Presented**

Presented a paper in 5<sup>th</sup> International IZMIR Economics & Business Adm. Congress, Turkey, February 25-26, 2022.

Presented a paper in 16th ACEGD, ISI Delhi, India, December 2021.

Invited Presenter, Business, Identity and Networks Conference, IIM Bangalore, July 29-31, 2021.

Presented, 7<sup>th</sup> Annual Workshop SERI, IEG-Delhi (Date)

# 8

## FELLOWS

### AFFILIATED AS SENIOR (VISITING) FELLOWS

No.	Name	Topic of Research	Period
1	Chhabilendra Roul (IAS Retired)	Techno-economic Plan for India: Steel and Fertiliser Sectors	August 22, 2021 to August 21, 2023
2.	Sanjay Srivastava	Gendered Violence and Urban Transformations in India and South Africa	September 16, 2021 to September 15, 2023
3.	Rita Brara Mukhopadhyay	CIS Editor	October 11, 2021 to October 10, 2023
4.	Saudamini Das	NABARD Consultancy	February 4, 2022 to March 31, 2023

### AFFILIATED SCHOLARS

No.	Name of Fellow	Title of Study	Period of Affiliation	Contact Person at IEG	Nationality
1	Richard Thornton	Teaching and Learning in Contemporary India: Neoliberal Subjectives and Rational Ontologies	September 1, 2018 to August 31, 2021	Sanjay Srivastava	United Kingdom
2	Renu Kohli	Can the G20 Reinvigorate itself and How	August 1, 2020 to July 31, 2021	Pravakar Sahoo	Gurgaon, Haryana
3	Rita Brara	National Green Tribunal and Rights of Juristic Persons for Nature	December 2019 to December 2021	Amita Baviskar	India
4	Madhuri Sharma	Multiple Dimensions of Gender (Dis) Parity Linking the Developed World with the Developing World – Theory Empiricism and Policy Implications	January 2023 to May 2023	Arup Mitra	UT-Knoxville, USA

## POSTDOCTORAL FELLOWS

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Swati Sharma	Breaking the Glass Ceiling for Women in Indian Manufacturing Sector: Workplace Ties Perspective	November 5, 2020 to November 4, 2022	Ajit Mishra
2.	Dripto Bakshi	The Interactive Dynamics of Caste and Communal Conflict	January 4, 2021 to October 14, 2021	Ajit Mishra

## POSTDOCTORAL FELLOWS IN 'THE POLITICAL ECOLOGY OF LARGE DAMS IN INDIA' PROJECT

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Shruti Jain	The Political Ecology of Large Dams in India	June 9, 2020 to March 31, 2022	Ajit Mishra Amita Baviskar

## IEG-CDE (DSE) Visiting Postdoctoral Fellow

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Salman Haider	Explaining Household Expenditure on Energy: Role of Income and Socio-economic Status	December 1, 2021 to May 31, 2022	Arup Mitra

## JUNIOR SRT FELLOW

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1	Sandhya Garg	Access to Banks and Rural Labour Force Diversification: A Study of Indian Villages	April 3, 2020 to April 2, 2023	Sabyasachi Kar
2	Archana Dang	Role of Time Preferences in Explaining the Burden of Malnutrition: Evidence from Urban India	October 26, 2020 to October 25, 2022	Indrani Gupta Mausumi Das

## ICSSR DOCTORAL FELLOWS

No.	Name of Fellow	Title of Study	University/Supervisor	Supervisor/ Co-Supervisor at IEG
1.	Amit Pandey*	Ecological and Economic Significance of Sacred Forests of Kachchh, Gujarat: An Arid Bio-geographic Province of India	TERI SAS Kavita Sardana	Saudamini Das
2.	Ishaque P.K.	The Idea of an 'Authenticated Islam': Mappila Muslim Traditions in Nadapuram, Kerala	Department of Sociology, University of Delhi  Shashi Bhushan Singh	Veena Naregal
Former ICSSR Doctoral Fellow (pursuing PhD)				
3.	Bisla Rajoria	Non-Farm Income: Determinants and Inequalities in Rural India	Punjab University, Chandigarh Seepana Prakasam	C.S.C. Sekhar

\*Degree awarded

## SCHOLARS PURSUING PHD UNDER IEG FACULTY (OTHER THAN ICSSR DOCTORAL FELLOWS)

No.	Name of Fellow and Date of Registration	Title of Study	University	Co-Supervisor at IEG
1.	Ojasvita Bahl	Macroeconomics	Indian Statistical Institute (ISI), Delhi	Chetan Ghate (Supervisor)
2.	Subhadeep Halder	Macroeconomics	Indian Statistical Institute (ISI), Delhi	Chetan Ghate (Supervisor)
3.	Damini Singh	Air Pollution and its Health Impacts	Jawaharlal Nehru University	Indrani Gupta (Co-Supervisor)
4.	Jagdish Sahu	Foreign Investment Surges	Jawaharlal Nehru University	Sabyasachi Kar
5.	Sanya Agarwal	Statistics	University of Delhi	Sangeeta Chakravarty
6.	Ishita Sachdeva	Policy Instrument to Achieve Energy Efficiency in India	University of Delhi	Purnamita Dasgupta
7.	Aparajita Agnihotri	Climate Change and Natural Resource Management	University of Delhi	Saudamini Das
8.	Geetika Gunjan	Exploring the Pathways Linking Agriculture and Nutrition in India	CESS, Hyderabad	Suresh Sharma
9.	Vandana Sharma	Transforming the Narrative of Health Sustenance for Vulnerable Neonates through Donor Human Milk	Gokhale Institute of Politics and Economics, Pune	Suresh Sharma
10.	Bindiya Kumari	An Econometric Analysis of Public Health Expenditure and Quality of Healthcare services in Haryana	Baba Mast Nath University, Rohtak	Suresh Sharma

## Summer Research Fellowship 2021-22

The IEG offered Summer Research Fellowships to Young graduate students in the fields of Economics, Politics, Sociology or other related disciplines and based in Delhi-NCR region. The purpose of these fellowships is to encourage the students to identify key socio-economic problems, gather evidence and offer viable policy solutions after critical analysis. They were paid a stipend during the period of their fellowships. The following students have successfully completed their summer research fellowship:

Group No.	Name of Fellows	Research Topic	Mentor	Period
1.	Haseeba Sayed Preeksha Malhotra	Covid 19 Infodemic: Case Study of the Poultry Industry to map the Economic Ramifications of Fake news	Mausumi Das	June 1, 2021 to November 30, 2021
2.	Aarti Malik Meet Mehta	Prediction and Attitudes about Intergenerational Socio-economic Mobility: Studying Delhi University's Job Market Candidates	Archana Dang	June 1, 2021 to November 30, 2021
3.	Aakriti Rana Sagar Uppal	Disproportionate Impact of Covid 19 on Women Academics and Researchers	Swati Sharma	June 1, 2021 to November 30, 2021
4.	Lakshay Talwar Anisha Maini	Policy Perspectives from the Margins: A Study of Informality, Solid Waste Management and Waste Pickers in Delhi	Mausumi Das	June 1, 2021 to November 30, 2021
5.	Tanvi Mathur Anchal Poddar Ritapriya Bandyopadhyay	The Emergency Credit Line Guarantee Scheme (ECLGS): A Study of MSMEs based in India	Swati Sharma	June 1, 2021 to November 30, 2021



## INFRASTRUCTURE

### 9.1 LIBRARY

The IEG library contains a specialised collection of books and documents in the social sciences, with an emphasis on development and planning. It caters mainly to the needs of faculty research and training. It also has micro documents, serials and official publications brought out by research organisations, corporate bodies, international organisations and their allied agencies, universities and the Central and the State governments, departments and their research and evaluation cells.

At present, the library has about 1,48,608 accessioned documents (as on 31<sup>st</sup> March, 2022), including books, monographs, workshop papers, conference proceedings, and about 4200 statistical serials in the social sciences containing statistical information on India and other countries. It also has micro documents such as Institutional Research Reports, working papers and annual reports of companies and government departments and other bodies. In addition, it has a stock of 23,000 back volumes of journals of 1,250 titles. The library receives 187 journals of which it obtains 67 journals on subscription, 28 journals in exchange and 92 journals in gratis. The library exchanges IEG's research output and publications (including its journal, *Contributions to Indian Sociology*) with similar institutions in India and abroad.

The library has a complete set of census reports commencing from 1872. For the period 1872 to 1951, the census data is in microfiche format and from 1951 to 2011 in hard copy. For 1991, 2001 and 2011, the census is also available in CDs. It also has a unique collection of old manuscripts and documents which it inherited as part of the UNESCO collection. The IEG Library is also having a good collection of important dataset and CDs of ASI, NSS, World Bank, IMF, ADB etc. Its total CD-ROM collection is 1396 as on 31<sup>st</sup> March, 2021.

IEG Library has digitised IEG Working Papers, IEG Discussion Papers etc. All these IEG research papers (full text) may be accessed from the IEG Intranet.

Presently, the library is connected with the University of Delhi's LAN systems and a member of DELNET. This allows access to many online resources, journals and databases like Taylor and Francis, Oxford University Press, Cambridge University Press, Sage Online, JSTOR, ScienceDirect, etc. Library receives some databases through ICSSR also like Prowess (CMIE), JSTOR, EBSCO, IndiaStat etc. IEG library also subscribes some databases like District Metrics, EPW Research Foundation etc.

An exhibition was organised to remember Prof V K R V Rao in IEG library during 9-15 December 2021. More than 100 visitors including Faculty, Researchers, IES Probationers and administrative staff visited the exhibition. Some old photos and albums of Prof V.K.R.V. Rao, Silver Jubilee, 40<sup>th</sup> Anniversary, Golden Jubilee, Former Faculty, former Presidents, Former Chairmen along with present faculty, present Presidents and Present Chairman was displayed.

IEG Library had conducted few users' orientation and training programmes for our faculty and researchers. During the 2020-

21 we had organised EBSCO database uses training (online) for the faculty and research staff. Apart the above IEG Library also provides internship training for short durations in the field of Library and information science students from the University of Delhi and Institutions etc.

## **9.2 COMPUTER UNIT**

IEG's Computer Unit caters to about 170 users, including faculty members, supporting research staff, members of the administration, doctoral students, IES probationary officers and affiliated visitors. We have a large local area network (LAN) serviced by high-speed server. IEG also acquired a high-speed fibre link of the National Knowledge Network over the University of Delhi's LAN system. It is also being used to access 100+ e-resources (journals, online databases, etc.). IEG also acquired an additional 300 MBPS internet link to manage internet failure and to provide uninterrupted internet services in the IEG's offices, hostel while additional high-speed internet connection has been provided in the staff quarters which are also connected with Wi-Fi systems. Biometric attendance system was setup to automate attendance system.

Faculty members and senior administrative staff are provided with PCs in their offices, connected with individual duplex/MFP laser printers. They are also provided laptops. Heavy-duty printing and scanning services are deployed in the Computer Unit, library and the accounts section of the Institute.

High Lumens LED Projectors deployed in V.K.R.V. Room, Ramakrishna Hall, A.M. Khusro Room and IES class room. Modern digital aid systems have been setup in the PRC conference room and AMB room. The IES training room of the Institute is installed with modern training amenities such as Digital Podium and wireless PA system.

IEG's software library has advanced application and econometric packages which cover MS Office 2019, Adobe Acrobat, Adobe InDesign, EViews 12, Limdep 7.0, Stata 16.0, SPSS 28, NVivo, Stella 5.0, Vensim 5.5 (DSS), GAMS 2.5, MFIT 5.0, MLwin, RATS 6.0, ArcGIS Pro, CorelDraw 2019 Graphic Suite, Tableau, EndNote2.0 etc. Network and online databases such as ProWess are also available.

The feature-rich IEG website is recently developed which is mobile compatible and allows easy access of faculty and staff profile, IEG's publications, projects and studies. It works as IEG information Centre to the Public. Website is also connected with a job portal microsite. The Audio-Visual Room of the Institute is equipped with VHF audio conferencing and it is being used for web conferencing, live interviews, live presentations and demo programmes. Computer Unit is managing listing of IEG working papers on RePEc.

IEG is recognised for its growing presence on social networking sites including Twitter, YouTube and Facebook. Seminars, conferences and events are made live with interactive connects using WebEx and Zoom Webinar. In addition, programmes are also being relayed live on YouTube. We have registered nearly 2,000+ followers on these accounts. Web analytics reveal that IEG events have been watched on YouTube in most of the countries across the world.

Computer Unit is continuing imparting International, National, Training to Government Officials and in-house training programme on advance analytics using Tableau, R, Stata and other statistical packages. In addition, the Computer System Administrator (CSA) has been the resource person for the ministries, universities and the institutes for different computational and analytical training

The PRC Unit in collaboration with MoHFW and technically administered by Computer Unit recently organised one day

workshop on Application of Machine Learning using SPSS on 21 March 2022. PRC Unit, IEG with the Technical assistance of the Computer Unit is in process to set up the Census Workstation.

The Computer Unit is also managing and maintaining National Dashboard (Anemia Mukht Bharat & Maternal Nutrition) for MoHFW, GoI funded by UNICEF. The CSA is working as Lead Technical for the National Level Dashboard. The Programmer is managing the designing/development of T3 Android App, website and dashboard for the state of Jharkhand. In addition, CSA is helping to integrate the state-level e-governance portal under SOPAN.

### **9.3 GUEST HOUSE AND OFFICERS' HOSTEL**

The IEG Guest House and Hostel caters primarily to the needs of participants of various training courses and orientation programmes conducted by the Institute, such as probationers and serving officers of the IES, the Indian Audit and Accounts Service, and participants in conferences held at the Institute, and IEG own guests.

The hostel is governed by a management committee chaired by the IEG director and convened by the warden, who is usually a senior professor of the Institute and responsible for the hostel's smooth functioning.

Dr. Oindrila De is currently the Warden.

## TRUSTEES, GOVERNORS, BOARD COMMITTEES, FACULTY AND STAFF

### BOARD OF TRUSTEES (BoT)

#### President : Life Trustees

Dr. Manmohan Singh, Former Prime Minister of India and Member, Rajya Sabha	-	up to 15-08-2021
Mr. N.K. Singh	-	16-8-2021 to continue

#### Life Trustees

Mr. Tarun Das  
Mr. Nitin Desai  
Mr. Jamshyd N. Godrej  
Dr. Bimal Jalan  
Dr. Vinay Bharat Ram

#### Elected Trustees

Dr. Naushad Forbes

#### Ex-Officio Members of BoT

#### Chairman BoG, IEG

Mr. Tarun Das	-	15-12-2016 to 28-02-2022
Prof. Ramesh Chand	-	10-03-2022 to continue

#### Honorary Treasurer, IEG

Mr. Anindo Majumdar	-	01-09-2020 to continue
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## **BOARD OF GOVERNORS (BoG)**

### **Chairman**

Mr. Tarun Das	-	15-12-2016 to 28-02-2022 (AN)
Prof. Ramesh Chand	-	10-03-2022 to continue

### **Members: Nominated by BoT**

Prof. Rohini Somanathan, Faculty, Delhi School of Economics, University of Delhi  
Mr. Chandrajit Banerjee, Director General, Confederation of Indian Industry

### **Members: Working IEG Faculty, Nominated by BoG**

Prof. Basanta Kumar Pradhan	06-09-2019 to 05-09-2021
Prof. Pravakar Sahoo	
Prof. Nuthalapati Chandra Sekhara Rao	06-09-2021 to continue
Dr. Sangeeta Chakravarty	
Dr. Oindrila De	

### **Members: Nominated by the University of Delhi**

Prof. V.K. Kaul (Faculty, Department of Commerce, DSE, University of Delhi), 04-12-2018 to 03-12-2021  
Prof. Surender Kumar (Faculty, DSE, University of Delhi), 27-03-2019 to 26-03-2022  
Prof. Amit Kumar Bardhan (Faculty, FMS, University of Delhi), 04-12-2021 to continue  
Dr. Hamendra Dangi (Faculty, Department of Commerce, DSE, University of Delhi), 27-03-2022 to continue

### **Members: Directors/Head of Social Science Research Institution (2) & Others (2) Co-opted by the BoG**

Prof. Y.S. Rajan, Honorary Distinguished Professor, ISRO – 19-02-2019 to 18-02-2022  
Prof. P.G. Babu, Director, MIDS  
Prof. S. Mahendra Dev, Director (Vice Chancellor), IGIDR  
Prof. Malabika Sarkar, Vice Chancellor, Ashoka University

### **Members: Nominated by the Indian Council of Social Science Research**

Prof. Virendra Kumar Malhotra, Member Secretary, ICSSR  
Prof. R. Vaidyanathan, IIM Bangalore – 12-09-2018 to 11-09-2021  
Prof. M.H. Suryanarayana, Former Professor, IGIDR 07-10-2021 to continue

### **Members: Official Funding Agencies, Co-opted by the BoG**

Chief Economic Adviser, Ministry of Finance  
Secretary, Ministry of Agriculture and Farmer's Welfare  
Secretary, Ministry of Health and Family Welfare

### **Honorary Treasurer: Ex-Officio**

Mr. Anindo Majumdar

### **Director & Member Secretary : Ex-Officio**

Prof. Ajit Mishra	-	01-07-2019 to 07-09-2021 (FN)
Prof. Indrani Gupta (Officiating Director)	-	07-09-2021 (FN) to 07-02-2022 (FN)
Prof. Chetan Ghate	-	07-02-2022 (FN) to continue

## **BOARD COMMITTEES**

### **COMMITTEE FOR ADMINISTRATION AND FINANCE (CAF)**

#### **Chairman, BoG**

Mr. Tarun Das	-	15-12-2016 to 28-02-2022
Prof. Ramesh Chand	-	10-02-22 to continue

#### **Members: Representative of ICSSR on the BoG**

Prof. Virendra Kumar Malhotra, Member Secretary, ICSSR

#### **Members: Working IEG Faculty, Nominated by BoG**

Prof. Basanta Kumar Pradhan	-	06-09-2019 to 05-09-2021
Prof. Chandra Sekhara Rao Nuthalapati, IEG faculty	-	06-09-2021 to continue
Prof. Pravakar Sahoo, IEG faculty	-	

### **Honorary Treasurer: Ex-Officio**

Mr. Anindo Majumdar

### **Director & Member Secretary : Ex-Officio**

Prof. Ajit Mishra	-	01-07-2019 to 07-09-2021 (FN)
Prof. Indrani Gupta (Officiating Director)	-	07-09-2021 (FN) to 07-02-2022 (FN)
Prof. Chetan Ghate	-	07-02-2022 (FN) to continue

## ACADEMIC COMMITTEE

### Chairperson: Director

Prof. Ajit Mishra	-	01-07-2019 to 07-09-2021 (FN)
Prof. Indrani Gupta (Officiating Director)	-	07-09-2021 (FN) to 07-02-2022 (FN)
Prof. Chetan Ghate	-	07-02-2022 (FN) to continue

### Members: Head of Units

Prof. Nuthalapati Chandra Sekhara Rao, Agricultural Economics Research Unit  
Prof. Indrani Gupta, Health Policy Research Unit  
Prof. Basanta Pradhan, Development Planning Centre  
Prof. Sabyasachi Kar, RBI Chair  
Prof. Suresh Sharma, Population Research Centre  
Prof. Purnamita Dasgupta, Chair in Environment Unit (01-01-2022 to continue)  
Prof. Pravakar Sahoo, Indian Economics Service Unit (17-08-2019 to 10-10-2021)  
Prof. Mausumi Das, Indian Economics Service Unit (11-10-2021 to 31-03-2022)

### Members: Outside Distinguished Social Scientists

Prof. Sanghamitra Sheel Acharya, JNU	24-09-2018 - 23-09-2021
Prof. Uday Bhanu Sinha, DSE, DU	24-09-2018 - 23-09-2021

### Member: Associate Professor

Dr. Sangeeta Chakravarty

### Member: Assistant Professor

Dr. William Joe

## HONORARY PROFESSORS

Prof. T.N. Madan  
Prof. C.H. Hanumantha Rao

## Others Committee

### Gender Sensitization Committee against Sexual Harassment (GSCASH)

- |                        |   |                          |
|------------------------|---|--------------------------|
| 1. Prof. Nilabja Ghosh | – | Chairperson              |
| 2. Ms. Sakshi Saini    | - | Member                   |
| 3. Mr. V.M. Budhiraja  | - | Member (A.O.)            |
| 4. Ms. Neeta Bhakru    | - | Member                   |
| 5. Ms. Vandna Sharma   | - | Member                   |
| 6. Ms. Bimla Devi      | - | Member (retired in July) |

### Internal Complaints Committee (ICC)

- |   |   |                          |
|---|---|--------------------------|
| 1. Prof. Indrani Gupta  | - | Chairperson              |
| 2. Prof. Pravakar Sahoo   | - | Member                   |
| 3. Dr. Sangeeta Chakravarty   | - | Member (retiring in Aug) |
| 4. Mrs. Ganga Bora  | - | Member                   |
| 5. Dr. Deepali Bhanot, Retired<br>Faculty, Janki Devi College, D.U. | - | Member                   |
| 6. Mr. P.K. Agarwal   | - | co –opted member         |
| 7. Dr. Sushil Kumar   | - | Member – Secretary       |



## Director, IEG

Prof. Ajit Mishra	-	01-07-2019 to 07-09-2021 (FN)
Prof. Indrani Gupta (Officiating Director)	-	07-09-2021 (FN) to 07-02-2022 (FN)
Prof. Chetan Ghate	-	07-02-2022 (FN) to continue

## ACADEMIC STAFF

### Professors

Mausumi Das  
Purnamita Dasgupta  
Vikram Dayal  
Nilabja Ghosh  
Indrani Gupta  
Brajesh Jha  
Sabyasachi Kar  
Arup Mitra  
Veena Naregal  
Nuthalapati Chandra Sekhara Rao  
Basanta Kumar Pradhan  
Pravakar Sahoo  
C.S.C. Sekhar  
Suresh Sharma

### Associate Professor

Sangeeta Chakravarty

### Assistant Professors

Oindrila De  
William Joe

### Professor On Project

Bina Agarwal  
Saudamini Das

### Senior (Visiting) Fellow

Chhabilendra Roul  
Sanjay Srivastava  
Rita Brara Mukhopadhyay  
Saudamini Das

### Junior SRT Fellows

Archana Dang  
Sandhya Garg

### IEG POST-DOCTORAL FELLOW

Swati Sharma  
Dripto Bakshi

### **Post-Doctoral Fellow In Futuredams Project**

Shruti Jain

### **IEG-CDE (DSE) Visiting Post-doctoral Fellow**

Salman Haider

### **ICSSR Doctoral Fellows**

Ishaque P.K.

Amit Pandey

## **ACADEMIC STAFF (CONTRACTUAL)**

### **Assistant Professors**

Sakshi Saini

Gudakesh

Deepak Varshney

## **RESEARCH STAFF**

### **Research/Field Investigators**

Bindiya Kumari

Rahul Kumar

Aashima Gupta

Purva Bhalla

Vandana Sharma

## **RESEARCH STAFF (CONTRACTUAL)**

### **Consultant**

Neha Agrawal

Ajay Kumar Verma

### **Junior Consultants**

Resham Nagpal

Samahita Phul

### **Research Officer**

Dev Mani Upadhyay

### **Senior Research Analyst**

Namrata Thapa

Rajeev Sharma

Vikas Singh

Shilpy Nagalia

Sonali Chadha

Mayanglambam Rajeshwor

## **Research Assistant/ Analyst/Investigator**

Deepak Kumar  
Ishan Sharma  
Anshita Shukla  
Alka  
Udisha Saklani  
Surendra Kumar Patel  
Mohmmad Zahid Siddiqui  
Bisla Devi  
Aqip Mujtaba  
Neha Pandey  
Satarupa Chakravarty  
Meghna Dasgupta  
Arundhati Kumari  
Mulla Areef  
Meghna Kane  
Saroj Kumar  
Shweta Madhav Raut  
Uday Kalu Salunke  
Charu Shubham Nagar  
Prathamesh Padmakar Patil  
Vishaka Ramnath Chavan  
Neel Sandeep Pathak  
Sagar Sunil Dive  
Umesh Ravindra Apsunde  
Anshita Sharma  
Monali Kumari

## **Project Officer**

Diwas Singh Saun  
Ria Ahuja

## **Research Fellow**

Sonal Choudhari  
Debayanti Bhowmick  
Bibhuti Ranjan  
Debayanti Bhowmick

## **Project Assistant**

Anjana

## **ADMINISTRATIVE STAFF**

### **Senior Administrative Staff**

Sushil Kumar Sen	:	Academic Programme Officer
P.K. Jain	:	Librarian
Vinod Kumar Tyagi	:	Computer System Administrator
V.M. Budhiraja	:	Accounts & Finance Officer
Siba Sankar Sahoo	:	Administrative Officer
Parag Kamal Sharma	:	Programmer
Sanjeev Kumar Jha	:	Assistant Librarian

**PS to Director**

Nirmal

**Senior Stenographer**

Kaushal Kant Joshi  
Sonia

**Stenographer**

Amit Kumar

**Assistant Programmer**

Rajesh Chatwal

**Administrative Assistant**

Sanjay Kumar  
Neeta Bakhru

**Senior Assistant**

Ganga Bora  
Ramamurthy Viswanathan

**Assistant**

Sanjay Jethani  
Subhash Kumar  
Mukesh Kumar  
Bali Ram Parsad

**Junior Assistant**

Deepti Jain  
Ravinder Singh Rawat  
Shankar Dutt Tiwari  
Harish Dutt

**Word Processor**

Satya Narain

**Professional Assistant (Library)**

Trilok Chand  
Mahija Deepu  
Yogesh Kumar Saini

**Data Assistant**

Inder Kumar  
Vikas Kumar

**Editorial Associate**

Bikram Sharma

**Driver**

Govind Singh  
Chanchal Singh Bora

**Despatch Rider**

Ram Murat Tiwari

**Multi-Task Staff**

Bimla Devi  
Mahadev  
Chandan Singh  
Sumit Baghel  
Shiv Kumar  
Ram Lal

**ADMINISTRATIVE STAFF (CONTRACTUAL)****Officer On Special Duty /Advisor To Director**

Devi Datt Kandpal

**Assistant Programmer**

Abhishek Mehta

**Documentalist**

Aditi Dixit

**Consultant(Accounts)**

Satish Kumar Sharma

**Senior Accounts Executive**

Surendra Kumar Thakur  
Satya Narain

**Assistant**

Bharat  
Vandana Rani

**Junior Assistant**

Deepak Arora

**Data Entry Operator**

Saleem Ahmad  
Mohit Singh  
Puneet Malhotra  
Prabha Dutt  
Himanshi Manral  
Yashika Rani

**Overseer-Cum Caretaker**

Rajesh Joshi  
Nikhil Miglani

**Junior Library and Information Assistant**

Priya Shirley Charan

**Library Attendant**

Mamta  
Km Anita

## INSTITUTE OF ECONOMIC GROWTH RECEIPT & EXPENDITURE FOR THE YEAR 2021-22

(Rupees in Lakhs)

PARTICULARS	2021-22		Prev. Year 2020 -21	
	RECEIPT	EXPENDITURE	RECEIPT	EXPENDITURE
1. Regular Sections				
a Maintenance and Development Section (ICSSR_OH 36 grant)	355.00	502.15	327.42	468.99
b Maintenance and Development Section (ICSSR_OH 31 grant)	9.50	9.50	10.00	10.00
c Training Programme for Indian Economic Service Officers (Ministry of Finance, New Delhi)	420.00	421.11	389.90	389.90
d Population Research Centre (Ministry of H & FW)	202.71	206.23	186.40	176.50
e Agro Eco. Research Centre (Ministry of Agriculture)	325.00	296.74	280.00	267.76
Sub Total	1,312.21	1,435.73	1,193.72	1,313.15
2. Endowment Sections				
a Dr.V.K.R.V.Rao Centre for Studies in Globalisation	5.65	3.80	5.65	2.33
b Development Planning Centre	25.16	14.32	25.33	4.15
c Library Development Fund	13.98	7.40	5.91	6.25
d Sir Ratan Tata Fellowship Trust	25.56	15.24	24.61	14.26
e Chair in Environmental Economics	12.25	12.42	12.96	14.39
f RBI Chair in Econometrics	37.90	38.20	38.88	47.45
g Sir V.T.K. Memorial Lecture Fund	0.78	-	0.78	-
h D.Umapathy Shastri Fund	0.28	-	0.28	-
I Infrastructure and Development Fund	6.50	-	-	-
Sub Total	128.06	91.38	114.40	88.83
3. Sponsored Projects/Workshop - Non-FCRA	902.73	822.35	469.24	462.39
4. Sponsored Projects/Workshop - FCRA	83.16	157.50	136.83	281.38
5. ICSSR Fellowship	7.50	8.27	3.29	15.95
6. Summer Fellowship	4.00	7.00	-	-
7. Own Funds	553.16	400.38	527.20	276.71
8. Earmarked Funds	115.20	22.48	105.21	39.47
GRAND TOTAL (1 to 8)	3,106.02	2,945.09	2,549.89	2,477.88

[www.iegindia.org](http://www.iegindia.org)



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**INSTITUTE OF ECONOMIC GROWTH**

University of Delhi Enclave, (North Campus), Delhi-110007, India.

☎: 91-11-27667288/365/424/570