

## Curriculum Vitae

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### **Dr. Somesh K. Mathur**

Professor of Economics,  
Department of Economic Sciences, Indian Institute of  
Technology Kanpur  
Kanpur. U.P. (208016)

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## Professional History

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### **Education:**

M.A. (Economics) from JMI, Delhi.  
M Phil(International Trade and Development)  
from CITD,JNU, Delhi.  
Ph.D. in Economics from CITD,JNU, Delhi.

### **Areas of Interest:**

Efficiency and Productivity Analysis, New trade  
And Growth Theories, Evaluating Trade  
Agreements, Gravity Analysis, Convergence  
Issues, Spatial Planning, CGE and SMART  
analysis, Applied Econometrics, TRIPS and  
other WTO Issues., Trade and Employment,  
Trade and Wage Inequality, Regional Inequality  
and Unemployment

### **Teaching/Research Experience:**

Worked as a Lecturer in Economics at  
Department of Economics, Jamia Millia  
Islamia University, Delhi from 1996 to 2006.

RIS fellow from 2006-2008.

Joined IITK as an Assistant Professor in 2008  
through 2012.

Worked as the P3 Economic Affairs officer at  
the UNESCAP office in Bangkok in 2010 on the  
project on Trade in Climate Smart Goods.

Worked at the ITT, UTE, Quito under the

Prometeo Project of the SENESCYT for first four months of 2012.

Worked as Associate Professor of Economics from 2012 through 2016 at the HSS, IIT K

Working as Professor of Economics at the Department of Economic Sciences, IITK since July 18,2016

**Administrative Services:**

Warden, Hall-II, IIT Kanpur.2009-2013

DCF Chairman,2013, IIT Kanpur.

**Associations/Memberships:**

Life Member of Indian Econometric Society,

National Knowledge Commission on TRIPS  
October, 2006 -2008.

National Working Groups on Patents,  
International Peace Science Congress, Cornell  
University since June 2001.

Member International Biometric Society.

**Papers Taught:**

Pure Theory of International Trade,  
Quantitative Analysis of International Trade,  
Quantitative Methods, Advanced Econometrics,  
International  
Finance and Banking, Microeconomics and  
Corporate Finance, Indian economy, National  
Income Accounting and Mathematical Methods  
of Economics, Econometrics I and II, Indian  
Economy Problem and Prospects, International  
Economics and Finance, Panel Data Analysis  
and Procedures, Spatial Econometrics, Carbon  
Trading and Energy Economics (UG Course),  
Efficiency and Productivity of Decision Making  
Units: Some Higher End Models (UG Course)

**Courses Developed in IIT Kanpur:**

Eco732: Quantitative Analysis of International  
Trade (A PG Course).

Eco542: Panel Data Procedures and Analysis

(A UG Course).

Eco524: Heterogeneous Firms and International Trade (UG Course)

Eco761A: Applied Econometrics (PG Course)

Eco503: Spatial Econometrics (UG Course)

Carbon Trading and Energy Economics (UG Course)

Efficiency and Productivity of Decision Making

Units: Some Higher End Models (UG Course)

## Projects Completed:

EOI1 and EOI47, IIT Kanpur and La Trobe University, Australia joint PhD research program in the area of global value chains and International Trade Agreements

Grant on the India-ASEAN: Partial and General Equilibrium Analysis and its Economy Wide Impact Including Carbon Emissions using Structural Gravity and Applied General Equilibrium Models by Kotak School of Sustainability, IIT Kanpur  
Preferential Trading Arrangement in South Asia, Indian Council for Research on International Economic Relations (ICRIER), Delhi.

Gulf Cooperation Council and Asia Trade Relations with the Gulf Research Centre, Dubai(UAE)

Indian IT Industry: A model for Possible Adoption, UNDP SDS Project,2007 under the aegis of RIS.

Initiation Grant Project 2008-09 (DORD, IITK) entitled Productivity Analysis of the ICT Sector and Linkages in Some Countries of South Asia, East Asia, Australia and New Zealand, A DEA and Malmquist Analysis.

Trade in Climate Smart Goods, Prometeo Project, Government of Ecuador Jan- May,2012.  
Narayan Murthy Funds for short project (Jan-April, 2011) entitled 'IIT Kanpur Budget using DEA Analysis'. Completed Successfully in April,2011.

Video Lectures on International Trade(44) developed for University Teachers and Docents under the NPTEL Project of the Ministry of Human Resource Development,2012.

Impact of India-EU Free Trade Agreement on India, UK and other Selected Countries, HSS, IIT K Project(December 2015-August,2016)

Research Paper entitled Impact Assessment of Canada-India FTA on Canada and India and Other Regional Blocks like TPP,EU and South Asian Countries prepared for Shastri-Indo Canadian Institute, Delhi as research paper for book project on India-Canada International

Relations, May,2016

Research Paper entitled Assessment of Proposed India-China Free Trade Agreement: A General Equilibrium Approach for GIFTA Project

UK(Governance and Economic Integration through Free Trade Agreements), november,2015 onwards

Funded by Kotak School of Sustainability and IITK on the topic, "India and the ASEAN: Partial and General Equilibrium Analysis and it's Economy Wide Impact Including Carbon Emissions using Structural Gravity and Applied General Equilibrium Models", Rs.1010,000.00/, Role: PI (Ongoing)

### **Books Published:**

Perspective of Economic Growth and Convergence in Selected South Asian and East Asian Economies, E-Book published by [ideaindia.com](http://ideaindia.com), London.Growth and Convergence ([www.ideaindia.com](http://www.ideaindia.com)), 2006.

Global Economic Trends and South Asia, ICFAI Press, Hyderabad, India,2007.

Economic Growth and Convergence in Selected South Asian and East Asian Economies: A Data Envelopment Analysis, ICFAI University Press, Hyderabad, 2007

Trade in Climate Smart and Other Specialized Products of Ecuador, An E book by bookboon.com, Denmark and UK. Available at: <http://bookboon.com/en/textbooks/economics/trade-in-climate-smart-goods>

With Luis Barreno, MariaIsabel and Rene Vasconez(2012), El ComercioDe Bienes Amigables Con El Ambiente Y OtrosProductos Especializados Del Ecuador(2012),UTE Press, UTE, Quito, Ecuador in Spanish.

Edited book (2017) on Theorizing International Trade: An Indian Perspective with Sarbjit Singh

and Rahul Arora, Palgrave Macmillan, US, UK  
and Europe

An edited book (2016) on Methods and  
Applications in Trade Policy Research, with  
Rahul Arora and Sarbjit Singh, Anne  
Books Private Limited, Delhi, Bangalore,  
Chennai, Mumbai

Forthcoming (2025) edited book entitled,  
“Changing Profile of India’s Trade Relations: A  
Partial and General Equilibrium Analysis”  
submitted, Routledge, UK

**Ph.D. Guidance and Research Associate:** Mr. Bikash Ranjan (Completed in 2012) (Worked on FDI Spillovers)

Mrs. Archana Srivastva (Completed in 2013)  
(Worked on Testing of Trade Theories)

Mr. Rahul Arora (Completed in 2016)  
(Worked on Regional Trade Agreements)

Mr. Sarbjit Singh (Completed in 2016)  
(Worked on Estimation of Trade Costs of India)

Dr Amrita Roy (Trade in Services Growth Accounting and Services Agreements, EU-India FTA), October 2015-2016

Mr. Manish Chauhan  
(Working on Spatial Convergence, expected to submit by May 2025)

**Technical Knowledge:  
(Softwares and Databases)**

CMIE, CEIC, World bank's WDI, IMF's IFS, WITS Data Base, Annual Survey of Industries Data of India, National Accounts Statistics, SMART analysis and CGE through GAMS NSO and Census Data Base, India Stat, GTAP

Well versed with Statistical and Econometric Softwares Like Stata, Eviews, Limdep, Spss, Onfront, Matlab, R and Python

**Publication Record:**

See Annexure I

**Paper presentations:**

See Annexure II

**Lectures Delivered and  
Workshop Attended:**

See Annexure III

## MY REFEREES

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**Dr. Rajesh Chadha**

Formerly at the Senior Fellow, NCAER,

Parisila Bhawan,11,  
Indraprastha Estate, New Delhi  
110002, India

Phone: +91-1123379861/2/3/5/6/8,

Fax: + 91-112337-0164

Email: [rchadha@ncaer.org](mailto:rchadha@ncaer.org)

**Prof. Manoj Pant**

Formerly at the Centre for  
International Trade

and Development,

SIS, JNU, Delhi-67.

Email: [manojp@mail.jnu.ac.in](mailto:manojp@mail.jnu.ac.in)

**Prof. SK DAS**

Formerly at the Centre for International Trade and Development

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Date: \_\_\_\_\_

(SOMESH K MATHUR)

Place: \_\_\_\_\_

2	Educational Qualifications				
	<i>Name of Degree</i>	<i>Name of the University</i>	<i>Year of Passing / award</i>	<i>% of marks</i>	<i>Main Discipline</i>
	Master's	JMI, Delhi	1994	58%	Economics
	MPhil	International Trade and Development) from CITD,JNU, Delhi	1997	MPhil Degree Awarded	Economics (Specialization in International Trade)
	Ph. D.	CITD,JNU, Delhi	Awarded	Doctorate Awarded	Economics
	Title of the Ph. D.	Perspective of Economic Growth among selected South and East Asian Economies			
	Salient features of Ph.D. (in 100 words)	The thesis covered the causes of economic growth in the east Asian region which led them to move ahead of all and South Asian nations. The thesis employed various methodological tools including DEA with growth accounting and kernel densities to understand the shifts in distributions of per capita incomes. More importantly the thesis gave theoretical justification for employing the per capita income growth equation using Solovian model assumptions. Technology where modelled and hence			



		the model employed had features of both exogenous and endogenous growth models.
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<b>3 Research Experience</b>			
		Number	Title, role/capacity / Presentation / Participation and details of funding Institution
A	Research Projects	11	Several projects conducted broadly on trade, regional economic cooperation, trade and environment using econometric and applied general equilibrium methodologies as Principal investigator/co-investigator/lead researcher, etc. Mostly funded by the Ecuadorian Government, IIT Kanpur and LaTrobe University Australia, Kotak School of Sustainability, UNESCAP, Gulf Cooperation Council, ICRIER, and Emerald Journals among others
b	Fellowships	3	ABCDE World Bank Development Conference, Arnold Shain Seminars, University of UDINE Italy for brief teaching assignment
C	Ph.D. Guidance	5	Ongoing 1 on Spatial Convergence and others completed on Free Trade Agreements, FDI, Trade Costs and Non-Tariff Barriers and Empirical testing of Trade Theories.
d	M.Phil. Guidance	1	Completed on Data Envelopment Analysis and its Applications
E	Seminars / Conferences	Over 100	Over 100 seminars and conferences organised and participated since 2000

<b>4 Details of 5 best Research Papers/Books/Chapters (enclose soft copies)</b>				
	<i>Title of the publication</i>	<i>Name of the Journal / Book / Publisher</i>	<i>Month, Year and Vol.</i>	<i>Scopus / UGC CARE listed? (Yes/No)</i>
a	Ex-Ante Evaluation of India's Trade Alliance with Indo Pacific: A General Equilibrium Analysis	Foreign Trade Review	Vol. 58, Issue 2, 2023	Yes
b	An Ex Ante Evaluation of Indo-Pacific Economic Framework A General Equilibrium Analysis	Economic and Political Weekly	Vol. 58, 2023	Yes
c	The efficiency of Indian banks: A DEA, Malmquist and SFA analysis with bad output.	Journal of Quantitative Economics	Vol. 19, July, 2021	Yes
d	Brexit and India–EU free trade agreement. Journal of Economic Integration	Journal of Economic Integration	2016	Yes
e	Determinants of trade costs and trade growth accounting	The World Economy	Vol. 39(9), 2016	Yes

	between India and the European union during 1995–2010.			
f	Spatial Convergence among Indian Districts: An Econometric Evidence	Journal of Quantitative Economics	Forthcoming in February 2025	Yes
g	Domestic Energy Consumption and Country's Income Growth: A Quantitative Analysis of Developing and Developed Countries using Panel Causality, Panel VECM, Panel Co-integration and SURE	Journal of Quantitative Economics	Vol14, Page 87-116, 2016	Yes

<b>5</b>	<b>Any other important academic achievement of the PI and Co- PI (approx. 150 words)</b>
	My research work in places like UNESCAP and in UTE-Ecuador linking trade with environment and using partial and general equilibrium methodologies have received greater attention and we have journal articles and books based on the work done abroad. Then research work on spatial convergence has led to development of a new course on Spatial Econometrics, introduced for the first time in the IITK curriculum. Papers culled out of the research in spatial convergence among Indian districts have been accepted at prestigious conferences like that of the ISI Delhi and International Economic Association meeting, Columbia 2023. Our forthcoming book on Changing Trade Relations of India: A Partial and General Equilibrium Analysis is expected to be published by Routledge 2024.

## **Annexure I**

### **Publication Record**

Chauhan, Mathur, S. K., Kulshrestha P (Forthcoming 2025): Spatial Convergence among Indian Districts: An Econometric Evidence in JQE

Srivastava, A., Mathur, S. K., Mathur, R., & De, P. (2023). Assessment of Possible Economic Alignment Between G20 Nations with Special Focus on India, G7 and G12: A General Equilibrium Analysis. *India Quarterly*, 79(4), 535-551.

*Archana Srivastava, Somesh K Mathur and Prabir De (2023), " Ex-Ante Evaluation of Indias Trade Alliance with Indo Pacific: A General Equilibrium Analysis", volume 58, issue 2, Foreign Trade Review, Sage Publication*

*Archana Srivastava, **Somesh K Mathur** and Prabir De (2023), "An Ex Ante Evaluation of Indo-Pacific Economic Framework A General Equilibrium Analysis", **Economic & Political Weekly** JANUARY 28, 2023 vol LVIII no 4*

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Archana Srivastava, Rachna Mathur and **Somesh K Mathur** (2022), " ", *Journal of Asian Economic Integration*, Volume 4, Number 2, Sage Publication, Thailand, New Delhi

Archana Srivastava and Somesh K Mathur(2022), "India's Possible Alignment with the South East Asia: A General Equilibrium Analysis of Impacts on Carbon Emissions", book chapter in the book entitled" Thirty Years of ASEAN INDIA RELATIONS Towards Indo Pacific", AIC, RIS,Ministry of External Affairs, Delhi and Cambodia

Sila Mishra, Manish Chauhan and Somesh K Mathur(2022),”Digital economies and evolving regulations: A parametric and nonparametric approach with bad output across countries, Artnet working paper number 212, Bangkok, UNESCAP

Ather H Dar, **Somesh K Mathur** and Sila Mishra(2021) '**The Efficiency of Indian Banks: A DEA, Malmquist and SFA Analysis with Bad Output**', Indian Econometric Society Journal, Journal of Quantitative Economics, Springer Publication. Most downloadable paper for last four years

Naman Aggarwal and **Somesh K Mathur**(2021)," Evaluation of Proposed India's Regional Trade Agreements with Major Economies using General Equilibrium Analysis ",**Chapter 11, June 2021 in the edited Handbook of Research on empirical aspects of strategic trade negotiations and management by Nuno Crespo and Nadia Simones, Lisbon, Portugal.**

**Mathur, S. K.** (2021). Book review: The India Myanmar Thailand Trilateral Highway and Its Possible Eastward Extension to Lao PDR, Cambodia and Vietnam: Challenges and Opportunities. **Journal of Asian Economic Integration**, 3(1) 93-120

**Mathur S.K,** Prasad, P M, Praveen Kulshreshtha and Sangeeta Khorana (2019), “The impact of oddeven transportation policy and other factors on pollution in Delhi: A spatial and RDD analysis”, ARTNeT Working Paper Series, No. 182, March 2019, Bangkok, ESCAP

Amrita Roy and Somesh K Mathur(2016),” Brexit and India-EU Free Trade Agreement, Forthcoming, Journal of Economic Integration, December Issue, Vol.31 No. 4.

Mathur Somesh K, Rahul Arora and Monika Bhardwaj,” (2016),” Relative benefits/losses of India aligning with RCEP and BRICS countries under the conjecture of free trade area in goods ,” UNESCAP ARTNET Working Paper Number 160, Bangkok

Mathur, Somesh K and Amrita Roy(2016),” Between the devil and the deep sea” **Financial Chronicle (E News Paper)**, <http://www.mydigitalfc.com/knowledge/between-devil-and-deep-sea-581>

Arora R., Singh S. and Mathur S.K(2016),”. Assessment of Proposed India-China Free

Trade Agreement: A General Equilibrium Approach” JCC: The Business and Economics Research Journal <http://centrumwebs.pucp.edu.pe/jcc/>, Peru, Volume 8(2),81-108

Singh, S., Arora R. and Mathur, S.K(2016). Measurement of Trade Costs, Its Determinants and Trade Growth Accounting for India with Its Asian Trading Partners, Volume 22(1),35- 55, Public Enterprise Journal, ICPE, Slovenia

Gaurav, A. and Mathur, S.K. (2015),”Determinants of Trade Costs and Trade Growth Accounting between India and the European Union during 1995–2010.” The World Economy. Article first published online: 28 AUG 2015. DOI: 10.1111/twec.12317.

Amrita Roy and Mathur, S K(2015), “Destination education, Will the top 200 Universities set up campus in India under GATT, Financial Chronicle <http://www.mydigitalfc.com/knowledge/destination-education-002>

Arora, R. and Mathur, S.K.,(2015),”Welfare Implications of India’s Trade Liberalization with Its Asian Partners: A General Equilibrium Analysis” Trade and Development Review. Jadavpur University, Kolkata, Volum8, Issue 2,68-95 <http://tdrju.net/index.php/tdr>

Mathur, S K & Archana Srivastava (2014),”Validity of Heckscher-Ohlin-Vanek Hypothesis – A Complete and Partial Test Approach” Korea and the World Economy, Chungbuk National University, Cheongju, Chungbuk 361-763, South Korea December issue of 2014.

Mathur, S K (2014),” Trade in Climate Smart Goods of Ecuador: Quantitative Analysis using Trade Indices, SMART and Gravity Analysis,” Journal of International Economics, Hyderabad, Volume 5, Issue 1, Jan-June

Mathur, Somesh K and Archana Srivastava(2013), "Relative Prices, Trade, Technology and Wage Inequality - Evidence from India", Foreign Trade Review, June, 2013

Mathur, Somesh K, Archana Srivastava and Bikash Ranjan Mishra(2012), "Firm Heterogeneity and Trade Barriers", Taylors Business Review, Volume 2, Issue 1, February, Kuala Lumpur, Malaysia

Mathur, Somesh K(2012), " Trade of CSG by ESCAP Nations: A Gravity Analysis, Journal of International Economics, Hyderabad, India, volume 3, issue 2, July-December

Mathur, Somesh K(2011),`Trade Analysis of CSG subcategories for Regional Groups and Some Selected Member States of ESCAP in 2002-2008`, Ovidius University Annals, Economic Sciences Series, 2011, vol. XI, issue 1, pages 1264-1279.

Mathur, Somesh K (2011), Contribution to UNESCAP (2011), Climate Smart Trade and Investment in Asia and the Pacific: Towards a Triple Win Outcome, Bangkok, Thailand.

Mathur, Somesh K with Archana Srivastava(2011), Rising Wage Inequality in India: A Translog Cost Function Analysis, abstract and proceedings of the 12th international Symposium on Econometrics Operations Research and Statistics, Turkey, May <http://pau.edu.tr/ekonometri/belge/proceedings/.Published> in Journal of Business and Policy Research, Volume 6, Number1, July 2011, World Business Institute, Australia [http://wbiaus.org/jbpr.htmhttp://wbiaus.org/View%20Articles\\_current92\\_july.htm](http://wbiaus.org/jbpr.htmhttp://wbiaus.org/View%20Articles_current92_july.htm)

Mathur, Somesh K(2011), "Trade of CSG by ESCAP Members: A Gravity Analysis"(Revised with theoretical justification), Conference Proceedings, The Indian Econometric Society 47th Annual Conference, Indore,Jan6-8,2011

Mathur, Somesh K(2011), "Trade of CSG by ESCAP Members and Some Regional Groups" Conference Proceedings, The Indian Econometric Society 47th Annual Conference, Indore,Jan6-8,2011

Mathur Somesh K(2011)with Archana Srivastava(2011),"Rising Wage Inequality in India: A Translog Cost Function Analysis", Conference Proceedings, The Indian Econometric Society 47th Annual Conference, Indore,Jan6-8,2011

Mathur, Somesh K(2010),Trade Performance in CSG of ESCAP Member Nations and Some Regional Groups in the Regions,Published in the Conference Proceedings, 9th International Conference Organized by the Japan Economic Policy Association , Waseda University,Tokyo, November 27-28,2010.<http://www.waseda.jp/assocjepa2010/JEPA2010Program5.pdf>

Mathur, Somesh K(2010), South Asian Integration Process and Asian Regionalism in BOAO Report published by Boao forum for Asia

Mathur, Somesh K(2009), Financial Analysis of the ICT Industry: A Regulatory Perspective, Journal of Infrastructure Development, Volume 1, No1, June 2009, sage publication

Mathur,Somesh K(2009). Role of Information and Communication Technologies in Enhancing Cooperation in South Asia in MS Bhat and A Illian edited book entitled Information Technology in the Indian Economy,New Century Publications, Delhi

Mathur, Somesh K(2009),"Financial Analysis of the ICT industry in Handbook for Research on E-Government Readiness for Information and Services Exchange, (IGI Global Publications, Hershey, PA, USA

Mathur, Somesh K(2008),"TRIPS and Safeguard Mechanism: Impact of Mailbox Applications on Affordability and Accessibility of Essential Medicines in Post 2005 Phase",1 November 2008, Issue 26, South Bulletin, South Centre, Geneva, Switzerland

Mathur, Somesh K(2009),"THE ICT SECTOR ACROSS COUNTRIES: A REGULATORY PERSPECTIVE USING DEA AND MALMQUIST INDEX", (November) in Handbook of Technology Management, Wiley, CALIFORNIA STATE UNIVERSITY, US

Mathur, Somesh K(2008),"Globalization and South Asia", in KR Gupta edited book, Liberalization & Globalization of Indian Economy, Atlantic Publisher, New Delhi.

Mathur, S.K.(2007), Review article of the book entitled : ICTs and Indian Economic Development: Economy, Work and Regulation by Ashwani Saith and M Vijayabhaskar, Indian Economic Journal, Volume 54, No 4, Jan- March ,2007

Mathur, S.K(2007)," INDIAN IT & ICT INDUSTRY: A PERFORMANCE ANALYSIS USING DATA ENVELOPMENT ANALYSIS & MALMQUIST INDEX, Global Economy Journal, May, The Berkeley Electronic Press, US

Mathur, S.K(2006),"Understanding of the Dispute Settlement Process of the WTO, Lahore Journal of Economics, December Issue

Mathur,S.K.(2006),"Indian Information Technology Industry: Past, Present and Future and a Tool for National Development", Journal of Theoretical and Applied Information Technology, August 2006,Volume 2,No 2

Mathur ,S.K. with Dr Shahid Ahmed(2006),"Industrial Sector Growth Accounting for the Indian States and the Union Territories: A Data Envelopment Analysis", Foreign Trade Review, Indian Institute for Foreign Trade, Delhi, Volume XL, No 4, January-March.

Mathur, S.K.(2006),"Efficiency of Delhi International Airport Using Data Envelopment Analysis: A Case of Privatization and Deregulation" in the proposed executive reference book entitled, Infrastructure Financing: An Overview The Institute of Chartered Financial Analysts of India (ICFAI), INDIA

Mathur, S.K.(2005),"Absolute Convergence and Economic Growth: Its Speed for Selected Countries for 1961-2001 ",Journal of Korean Economy, Vol. 6, No. 2 (Fall 2005), 245-273.

Mathur, S.K.(2005),"Economic Growth and Conditional Convergence "Its Speed for Selected Countries for 1961-2001", Indian Economic Review, Delhi School of Economics, JUNE-December Issue.

Mathur,S.K. with Dr.S.Ashraf (2005),"Globalization and Development: Some Issues and Empirical Facts", in the felicitation volume of Professor Ashok Mathur ( JNU) entitled "Industrialization, Economic Reforms and Regional Development", Shipra Publications, Delhi.

Mathur, S.K.(2004) Absolute Convergence: Its Speed for Selected Countries for 1961-2001 ",Journal of Indian School of Political Economy, Pune , India, Volume 16,No1,Jan-March,2004

Mathur, S.K.(2004)," Intellectual Property Rights in the Developing Countries, Review of International Economics, May, Blackwell Publishers, USA(Book Review)

Mathur, S.K.(2003),"Trade Liberalization and the Poor: A Framework for Poverty Reduction Policies With Special Reference to Some Asian Countries including India" ,Indian Development Review, Volume 1,No.2,Serial Publication, New Delhi. Revised Paper available in Professor MS.Bhatt edited book entitled "Poverty and Food Security in India", Aakar Publications, India.

Mathur, S.K.(2002),"Multilateral Trading System: Doha Round and Beyond", The Institute for Chartered Financial Analyst of India(ICFAI) Journal of International Business Law, Hyderabad, India. November

Mathur,S.K.(2001),"Domestic Challenges and the TRIPs Agreement: The Way forward for India", Journal of World Intellectual Property Right,Geneva,Vol.4 No 3, May.

Mathur,S.K.(2000) "Information and Communication Revolution: Impact and Strategies for Development" Scientific Journal of Economic Research, Croatia (Europe),February.

Mathur,S.K(2000), " Pattern of International Trade, New Trade Theories and Evidence from Gravity Equation Analysis" April -June issue, Volume 47,No.4,Indian Economic Journal. Available at the Indian Economic Journal web site: <http://www.indianeconomics.org/material/A-J+9.pdf>.

Paper titled "Agenda for Future Multilateral Trade Negotiations: Traditional and New Issues and Implications for India " presented(deemed) at the ASARC(Australian National University South Asian Centre, Canberra, Australia) Conference on Ten Years of Economic Reforms in India,November 18-19,2001.Paper available at the ASARC Web site Address: <http://rspas.anu.edu.au/papers/asarc/novcon2001/Mathur.pdf>

Paper titled "Prominence and Economics of Internet and Wireless Technologies" presented at the International Conference on Electronic Commerce organized by the Vienna Government,



Vienna(Hofburg City Centre), Austria from 31.10.2001 through 04.11.2001. Paper published in the Proceedings of the ICEC,2001 and available in CDROM.

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## **Annexure II**

### **Paper Presentations**

Invited lecture on the topic, “International Trade Applications and Counterfactual Policy Analysis through GTAP (Applied General Equilibrium model) and Structural Gravity Model” Dr. John Matthai Memorial Lecture and Two Day National Seminar (139 th Birthday Celebration of Dr.John Matthai), Date: 9-10 Jan 2025 in Thissur, Kerala.

Paper presented at DSE Winter School entitled, “A comparative study on the impact of Indian transportation infrastructure on firm level performance with a focus on inland waterways” in December 2024.

**Papers presented at Ordinary Sections Program of the 4<sup>th</sup> International Workshop of the Structuralist Development Macroeconomics Research Group at University of Brasília, Faculty of Economics, Business Management, Accounting and Public Policies, Brasília/Brazil on June 13, 2024. Papers are: Quantitative assessment of the Indo-Pacific Economic Framework (IPEF) and opting out of the trade pillar: Evidence from a global economic model**

Authors: Rahul Sen (School of Economics, Auckland University of Technology, Auckland, New Zealand) and Somesh Mathur (Department of Economic Sciences, Indian Institute of Technology (IIT), Kanpur, India)

Article: **The Impact of Input and Output Oriented Technological Progress with Structural Transformation in India, China and Japan: A General Equilibrium Analysis**

Authors: Archana Srivastava (Birla Institute of Technology and Science/IND) and Somesh Kumar Mathur (Department of Economic Sciences, Indian Institute of Technology (IIT), Kanpur, India)

Rahul Sen and Mathur Somesh K (2024) paper entitled, “A quantitative assessment of the Indo-Pacific Economic Framework (IPEF) and opting out of the trade pillar: Evidence from a global economic model” presented at the Australasian Trade Workshop, Te Kura Umanga | UC Business School University of Canterbury, Christchurch, New-Zealand, 16<sup>th</sup> to 17<sup>th</sup> March.

Assessment of Possible Economic Alignment Between G20 Nations with Special Focus on India, G7 and G12 Nations: a General Equilibrium Analysis' **oral presentation** at the 3rd SDMRG International Workshop - Public Policies for Innovation, Social Inclusion and Environmental Sustainability. The event was held from June 28th to 30th, 2023.

First and Second draft of the paper entitled, "Revitalizing APTA through possible Japan's inclusion and India's omission: A General Equilibrium analysis using Structural gravity model" presented at Japan Economic Policy Association Meeting at Osaka, Japan 2023 and DSE Winter School 2023.

Mathur Somesh K (2023) paper entitled, "India's Possible Alignment with RCEP: A Partial and General Equilibrium Impact on Economy Wide Variables and Carbon Emissions" presented at 16<sup>th</sup> Trade Workshop, Cairns, Australia.

Mathur Somesh K, Rahul Arora, Ishita Ghoshal Thorat (2016), "Domestic Energy Consumption and Country's Income Growth: A Quantitative Analysis of Developing and Developed Countries Using Panel Causality, Panel VECM, Panel Cointegration and SURE" Presented at the TIES Conference, IIM Kozikode, Jan4-6, 2016

Mathur, S.K and Amit Kumar (2016), "Testing of Proximity Concentration **Hypothesis on India: An Empirical Analysis**", Presented at the TIES Conference, IIM Kozikode, Jan4- 6, 2016

Anshul Kumar Singh and Mathur, S.K.(2016), "FDI Spillovers in Manufacturing Sector: Evidence from India", Presented at the TIES Conference, IIM Kozikode, Jan4-6, 2016

Kanak Agrawal and Mathur, S.K.(2016), "Does Domestic Energy Consumption affect GDP of a Country? A Panel Causality, Panel VAR and Panel Cointegration Study", Presented at the TIES Conference, IIM Kozikode, Jan4-6, 2016

Gaurav, A. and Mathur, S.K. (2016). Determinants of Trade Costs and Trade Growth Accounting between India and the European Union during 1995–2010 Paper(Revised) presented at the Winter School, Delhi School of Economics, Delhi, December 14-16, 2016

Mathur, S.K and Harshvardhan Singh(2015), "Trade in Climate Smart Goods by UNESCAP with US and the EU, "Paper presented at the QIP on Sustainable Development, Policy and Management, organized by HSS, IIT K, Nov 30-December 5, 2015

Mathur S.K and Rahul Arora,(2015), "Assessment of Proposed India-China Free Trade Agreement: A General Equilibrium Approach" presented at IIT Kanpur on December 24<sup>th</sup>, 2015

Gaurav, A. and Mathur, S.K. (2015). Determinants of Trade Costs and Trade Growth Accounting between India and the European Union during 1995–2010, paper presented at the Tenth Annual International Conference on Public Policy and Management, August 3rd-5th, IIM Bangalore

Mathur, S.K with Archana Srivastava(2015), "Validity of Heckscher-Ohlin- Vanek Hypothesis – A Complete and Partial Test Approach," Paper presented at APEA Conference, 2015, National Taiwan University, Taipei

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Mathur, S.K. and Abhishek Gaurav(2015),”DETERMINANTS OF TRADE COSTS AND TRADE GROWTH ACCOUNTING BETWEEN INDIA AND THE EUROPEAN UNION DURING 1995-2010”, paper presented at the Trade Research Group(Troup) Seminar, University of Gottingen, May 13th,2015

Sarbjit Singh and Mathur, S.K.(2014),”An EMPIRICAL ESTIMATION OF

TRADE COST OF INDIA IN POST LIBERALIZATION ERA, Paper presented at the fourth Indian Institute of Foreign Trade Annual Conference on “ Empirical Issues in International Trade, 18-19th December, Delhi

Rahul Arora and Mathur, S.K.(2014),” Welfare Implications of India’s Trade Liberalization within ASIA:A General Equilibrium Assessment under Conjecture of Free Trade Area, Paper presented at the fourth Indian Institute of Foreign Trade Annual Conference on “ Empirical Issues in International Trade, 18-19th December, Delhi under the aegis of CDTE, MHRD, GOI

Mathur, S.K.(2014),” Trade in Climate Smart Goods of Ecuador: Quantitative Analysis Using Trade Indices, SMART and Gravity Analysis(Revised),” International Seminar on Green Economy and Sustainable Development,6-7 November 2014, Institute for Social and Economic Change ,(ISEC), Bangalore

Mathur, S.K.(2014),”Trade in Climate Smart Goods of Ecuador: Quantitative Analysis using Trade Indices, SMART and Gravity Analysis”, Revised Paper with theoretical justification Presented at the 16<sup>th</sup> Annual INFER Conference, Pescara, Italy, May 30,2014

Mathur, S .K.(2013), Trade in Specialized Products of Ecuador: Quantitative Analysis Using Trade Indices, SMART and Gravity Analysis in the International Scientific Conference on Applied Economics: Empirical Analysis of Markets and Enterprises" to be held in Perm, Russia, from 18 to 20 September, 2013

Archana Srivastava and Somesh K Mathur(2012),"Contribution of Trade Cost, Transportation Cost and Income Similarity on India's Trade: A Gravity Model Approach", paper presented at the IIFT Conference entitled 'Empirical Issues in International Trade and Finance', Kolkata,Jan.10-11,2013

Archana Srivastava and Somesh K Mathur(2012),"Heckscher Ohlin Vanek Theorem: An Excess Supply Approach", paper presented at the IIFT Conference entitled 'Empirical Issues in International Trade and Finance', Kolkata,Jan.10-11,2013

Prabhjot Kaur and Somesh K Mathur(2012), Does Trade Cause Inequality : An Empirical Analysis of Developing Countries, Paper Presented at the Indian Econometric Society Conference, Pondicherry,January,2012

Harshita gupta and Somesh K Mathur(2012), Estimation of Poverty Measures from Lorenz Curves , Paper Presented at the Indian Econometric Society Conference, Pondicherry,January,2012

Mathur, Somesh K. (2013),"Trade in climate smart goods of Ecuador: quantitative analysis using trade indices, SMART and gravity analysis", Paper Presented at the International Conference on Applied Economics: Empirical Analysis of Markets & Enterprises, Higher School of Economics,Perm,Russia. <http://perm.hse.ru/icare/papers>

Mathur, Somesh K with Archana Srivastava(2013),"Relative Prices,Trade,Technology and Wage Inequality-Evidence from India", paper to be presented forthcoming conference in "Economics Reforms, Growth and Public Expenditure" to be held at the Centre for Studies in Social Sciences, Calcutta at R-1, B. P. Township, Kolkata 700 094, October 8-9,2013.

Paper titled "Productivity Analysis of the ICT Sector Across Countries with Special Reference to India: Directions for New Science Policy" presented at the International Conference on Liberalizing Research in Science and Technology, February 4-6, 2009 organized by the HSS, IIT Kanpur.

Presented the paper entitled "ICT Productivity Across Nations Using DEA and Malmquist Indices"at the fourth annual APEA(Asia Pacific Economic Association Meeting) held in Beijing, China 13-14 December, 2008.

Presented paper on' Convergence Among Countries in Latin America' at the Department of Economics, University of Puebla, Mexico , November 22,2007. Presented the paper "Role of ICTs in Enhancing Cooperation in South Asia" at the International Telecommunication Society Conference in Perth, Australia ,August 26-28,2007.

Paper presented at Andrassy University, Budapest May 10-12,2007 on TRIPS and India at the Conference on Innovation in the Health Sector.

Presented the paper on the Indian IT Industry: A Data Envelopment and Malmquist analysis at the Institute for Economic Growth Conference on Globalization and Economic Freedom, April,2007.

Presented the paper on TRIPS: Issues and Impact on India at the WIPO Roundtable on March 6-7, 2007.

Presented Paper on the Understanding of the Dispute Settlement Process of the WTO at the Asian Law and Economics Workshop, Bangalore, December 2006.

Presented the Paper entitled " TRIPS: Issues, impact and the way forward for developing countries including India" at the 2nd Annual Workshop on the Law and Economics of Intellectual Property and Information Techno at the Institute for Law, Economy and Global Governance, School of Law, The University of Manchester, 27-28 July 2006.

Presented the Paper titled "TRIPS: Some Issues and its Impact on India" at the International Conference on Globalization 2006 entitled "The Changing Structure of World Trade and Investment and its Impact on Poverty and Income Inequality", Organized by the Department of Economics, Ben-Gurion University of the Negev, Beer Sheeva, Israel, March1-2,2006.

Presented a paper entitled "Panchayati Raj Institution: Evolution, Design and Performance at a seminar jointly organized by the Department of Economics, Jamia Millia Islamia, and Planning Commission New Delhi, March 17, 2005.

Presented a paper entitled "Efficiency of the Delhi International Airport: A Data Envelopment Analysis" at the German Aviation Research Seminar on Slots and Competition among Airports at Bremen, Germany 18-20, November,2004.

Presented paper titled "Trade Liberalization and the Poor: A Framework for Poverty Reduction Policies With Special Reference to Some Asian Countries including India"(Revised and Abridged Version) at the international conference on Korea and the World Economy, July 3-4, Seoul, 2004. The conference was organized by the Korean Development Institute, Seoul and Kangwon University, Korea.

Paper presented titled "Land Reforms in India: An Appraisal" in the Conference entitled "Institutional and Policy Diversity: Its role in Economic Development",2-4 November,2003,University of Delhi, India. Paper presented at the National Seminar on Poverty and Food Security in India:Some Problems and Perspectives,18-19 February,2003,New Delhi,India.Seminar organized by the Department of Economics,Jamia Millia Islamia. (<http://jmi.nic.in/Events/EventsP.htm>),New Delhi.Rated among the top ten papers according to Social Science Research Network,2003.

Participated in the Symposium on "Competition Policies and the Civil Societies" held at WTO Secretariat, Geneva on 13 Sep,1999.

Participated in the first and second World Bank Annual Conference on Development Economics (ABCDE)-Europe both held in Paris in June-1999 and June 2000 respectively in collaboration with Council for Economic Analysis, French Ministry of Industry, Economy and Finance.

Presented the paper (draft) titled "Pattern of International Trade,New Trade Theories and Evidence from Gravity Equation Analysis" at the third international conference on Enterprise in Transition held in Sibenik, Croatia on May 26-June2,1999.  
<http://www.efst.hr/eitconf/99followup/s1chilosi.html>

Participated in the seminar on "Macroeconomic Management: New Methods and Current Policy Issues" organized by WBI,World Bank in New Delhi,India,March 15-25,1999.

Participated in the seminar on Managing Capital Flows in a Volatile Financial Environment organized by WBI,World Bank in Bangkok, Thailand, February 22-25,1999.

Participated in the seminar on "The New Trade Agenda, the WTO and India" jointly organized by ICRIER,New Delhi, WBI,World Bank and WTO from December,7-11,1998.

Participated at the workshop on "Economic Growth and Poverty Reduction" held at Colombo from October, 19-23,1998 jointly organized by World Bank Institute(WBI), World Bank, National Planning Division-Sri-Lanka and FASID, Japan.

Presented the paper (first draft) titled " Pattern of International Trade, New Trade Theories and Evidence from Gravity Equation Analysis" at the 14 PROGRES (Programme for Research in the Service Economy) seminar held at Geneva, Switzerland on 11-12 September,1998. Paper available at the internet site:[www.genevaassociation.org](http://www.genevaassociation.org).

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### **Annexure III**

#### **Lectures Delivered and Workshop Attended**

Mathur Somesh K (2024) resource person for the five days national workshop on Structural Gravity Model: Theory Estimation and Applications at Aligarh Muslim University from 18<sup>th</sup> to 22<sup>nd</sup> January, 2024

Delivered Lectures on Panel VAR, Panel Causality, Panel Cointegration, ARDL Approach to Cointegration, VAR, Impulse Response and Variance Decomposition, New Trade Models and Gravity Modelling, Anderson and Wincoop and Chaney Models of Gravity Decomposition at the ten day Quality Improvement Programme(QIP), IIT Kanpur, organized by the Department of Humanities and Social Sciences, IITK in joint Collaboration with Indian Econometric Society Trust(TIES) and Centre for Advance Studies, Department of Economics, University of Mumbai, 10th-20th, December,2014 under the aegis of CDTE, MHRD, GOI

Attended Workshop at UNESCAP, Bangkok office for ARTNET 10TH Anniversary Conference and Capacity Building Programme on CGE, September 24-26th,2014

Lectures delivered on frontier areas in Trade and Econometrics, Symbiosis International University, Symbiosis School of Economics, Pune, August 12th,2014

- One day workshop on Research Methodology for teachers from Quito Colleges, Ecuador on 18 January,2012 at University Technology Equinoccial\_(UTE), Matriz Campus, Quito, Ecuador
- Organized Conferences with Santo Domingo Teachers and Researchers at UTE, Santo Domingo, Ecuador (February 2 and 3, 2012) in the area of efficiency and productivity analysis of Cocoa and Palm Oil firms.
- Organized Conference with Quito Teachers and Researchers at UTE on February 8,2012 on the work in progress on Trade in Climate Smart Goods and Other Specialized Products of Ecuador.
- Presented my work on Trade in Climate Smart Goods of Ecuador for consumption of teachers and researchers of UTE, Salinas and Guayaquil, Ecuador on February 23 and 24, 2012.



- Workshop on Panel Data, including Fixed Effect procedures, Pooled OLS and Random Effect Procedures, Diagnostics for choosing the above models with appropriate tests for heteroscedasticity and autocorrelation, Dynamic Panel Data

Models, Estimation Procedures like GMM to estimate Dynamic Panel data Models, Panel Unit Root, Cointegration and panel VAR Models(with interpretations) and Panel Models with Limited Dependent Variable responses, Hausman Taylor Estimators, among others. - as a part of the three day National Workshop on Panel Data, Symbiosis School of Economics, Symbiosis International University, Pune - 23rd to the 26th of August,2013 and ii) Guest lectures for our final year postgraduate students on trade theory and policy, including new new trade theories and latest work on gravity analysis of Chaney and Helpman, Rubinstein and Yeaple - from the 26th to the 30th of August, 2013.

- Delivered the lecture on topic entitled, "The Heckscher-Ohlin Vanek Theorem, New-New Trade Theories, and Impact Assessment of Trade with Gravity Analysis" on 3/9/2013 at 2:30 p.m. at the South Asian University, Akbar Bhavan, Chanakyapuri, New Delhi.
- Lecture on Advanced Panel Data Methods including Dynamic Panel Data Procedures, GMM, Hausman Taylor Regression, Differences in Differences Approach, and Use of Limited Dependent Variables in Panel Framework with STATA,AICTE sponsored two-week Faculty Development Programme on Applications of Econometrics and Time Series Techniques in Business, 20<sup>th</sup> May-2<sup>nd</sup> June, 2013,Mata Vaishno Devi University, Katra, Jammu
- Lecture on Use of Econometric Software like Eviews, SPSS(Statistical Software) and Stata in teaching of Econometric subjects like Logit, Probit and Tobit Models, Time Series Analysis and VAR Models, Faculty Development Programme on Modern Research Through Applications of Econometrics and SPSS,Organized by STEP-HBTI,Kanpur,July 30-August 5,2012.
- Attended Workshop on Productivity Measurements by Professor S Ray and Professor Subhal Kumbhkar jointly organized by Swiss Re and CDE(Centre for Development Economics)), DSE(Delhi School of Economics) at the DSE January 5-7,2009.
- Lecture on Indian IT and ICT Industry: A Performance Analysis Using DEA and Malmquist Index at the Jan Tinbergen European Peace Science Conference, Netherlands June 25-28,2007.
- Short Talk at the conference on ESF-IfW Conference on the Global Health on TRIPS and Mailbox applications, Salazu, Germany, May 7-10,2007. [www.esf.org/fileadmin/be\\_user/activities/research\\_conferences/Docs\\_NEW/2007/2007-237fp.doc](http://www.esf.org/fileadmin/be_user/activities/research_conferences/Docs_NEW/2007/2007-237fp.doc).
- Participated at the ELITEX2007 organized by the Ministry of Communications and Information, Government of India, IHC, January 10-11,2007.
- Delivered a lecture on Growth and Convergence: Evidence from Developed and Developing Countries to the Indian Economic Service probationers at the Institute for Economic Growth, Delhi on 12.9.2005
- Delivered a lecture on the Agreement on Agriculture at the WTO outreach seminars at Guwahati in Assam(India) on January 28-29,2005 , April 1-2 at Jaipur, and Bhopal ,June 18-19,2005 ,October 1-2,2005 at Bangalore India jointly organized by the

British High Commission and Association of Environment and Development(NGO), Delhi.

- Delivered a lecture on "Liberalization of the Indian Economy and the Aviation Sector" at the University of Applied Sciences, Bremen, Germany, November 18-19, 2004.
- Participated in a eleven day workshop on Law and Economics at the Indira Gandhi Institute for Development Research(IGIDR), Mumbai, September 6-11, 2004. The workshop was jointly organized by the IGIDR and the University of Hamburg, Germany.
- Participated in the workshop on Integrated Assessment of Sustainable Development organized by the Abdus Salam Centre for Theoretical Physics, Trieste (Italy) April 1-2, 2004.
- Participated in the first international Econometrics Workshop on Financial Markets and Banking at Indira Gandhi Institute for Development Research, Mumbai, January 3- 8, 2004.
- Participated at the fourth Annual Bank Conference on Development Economics to be held on Oslo, Norway, June 24-26, 2002 jointly organized by the World Bank and Norwegian Government. Comments on the papers presented at the parallel workshop on the topic " Determinants of Foreign Direct Investment: Globalization Induced Changes and the Role of Foreign Direct Investment(FDI) Policies" available at the World Bank website: [www.worldbank.org/abcde-europe](http://www.worldbank.org/abcde-europe)
- Participated in the workshop/summer school in economic theory Markets: Expectations and Information in Lund, Sweden, June 10-20, 2002. The workshop/summer school is organized by the Arne Ryde Foundation, Department of Economics, University of Lund, Sweden.
- Participated in the four-day seminar on "Globalization and its Impact on South Asia" held on 27-30 August 2001, jointly sponsored by the Jamia Millia Islamia and the Indian Social Institute, New Delhi.
- Participated in the international seminar on the topic Defence, Security and Economic Development in the Balkans and Eastern Mediterranean on 22-24 June, 2001 at Larissa, Greece. Seminar organized by the Technological Educational Institute of Larissa, Greece.
- Delivered a lecture on " The relevance of new trade and endogenous growth theories in explaining the empirical facts of international trade and economic growth" at the Department of Economic Sciences, University of Udine, Udine, Italy on 18-19, September, 2000.

### **Short CV**

Prof Somesh K. Mathur received his PhD in economics from the International Trade division of the JNU in 2005. Prof Mathur has 28 years of teaching and research experience. Prof Mathur's specialization lies in international trade, applied econometrics, partial and general equilibrium analysis, deep learning methodologies, growth economics, spatial economy, climate modelling of environment energy relationship and mathematical modelling. Prof Mathur has at least five books in his name, including one on trade from Palgrave

Macmillan and one in Spanish with Ecuadorian collaborators. Professor Mathur has published in journals like Review of International Economics, Geneva papers on Risk and Insurance, Journal of Quantitative Economics, Journal of Economic Integration, Journal of Asian Economic Integration, Journal of Economic Analysis, UNESCAP Artnet working papers, The Business and Economics Research Journal, , Public Enterprise Journal, The World Economy, Indian Economic Journal, Trade and Development Review, Prajnan, Indian Economic Review, Indian Economic Journal, Journal of World Intellectual Property Rights, EPW, Foreign Trade Review, Global Economy Journal, among others. At present, Prof Mathur teaches Trade, Econometrics and Math Econ to graduate and PhD students of the IIT Kanpur. Professor Mathur is accustomed to use SPSS, STATA, EVIEWS, R, MATLAB GTAP, SMART and PYTHON Codes.

Professor Mathur has taught papers like Applied Econometrics, Econometrics, International Trade and Finance, Heterogenous Firms and International Trade, Efficiency and Productivity analysis, Quantitative Economics, among others to graduate, post graduate and PhD students of the IIT Kanpur

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