

Dr. Seema Sharma

Professor, Economics

Department of Management Studies,
Room No. 401, Vishwakarma Bhawan,
Shaheed Jeet Singh Marg,
Indian Institute of Technology, New Delhi Ph. 91-11-26596352,
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Areas of Research:

Sustainable Development, Socio-economic Analysis, Productivity and Efficiency Analysis, Renewable Energy Policy Analysis

Work Experience

- | | |
|----------------------------------|------------------------------|
| • Professor, IIT Delhi | Aug 3, 2018 onwards |
| • Associate Professor, IIT Delhi | Dec 27, 2012 to Aug 2, 2018 |
| • Assistant Professor, IIT Delhi | Nov 25, 2005 to Dec 26, 2012 |

Teaching Interests: Economics and Statistics

- Macroeconomic Environment of Business
- Managerial Economics
- Advanced Data Analysis for Management
- Business Statistics for Management
- Marketing Research

Research Publications

Publications in International Journals

1. Prakash, N., Singh, S. and Sharma, S. (2023). Networking effects of innovations: evidence from the Global South", International Journal of Organizational Analysis. (in Press). <https://doi.org/10.1108/IJOA-07-2023-3858>
2. Gupta, P.K. and Sharma, S. (2023). Literature review on effect of microfinance institutions on poverty in South Asian countries and their sustainability. International Journal of Emerging Markets, Vol. 18 No. 8, pp. 1827-1845. <https://doi.org/10.1108/IJOEM-07-2020-0861>
3. Bhatia, V., Sharma, S. and Bhatia, R. (2023). Investment decisions and project management over Indian railways: a case of freight corridors. Measuring Business Excellence, Vol. 27 No. 2, pp. 173-192. <https://doi.org/10.1108/MBE-08-2021-0106>
4. Gupta, P.K. and Sharma, S. (2023). Role of corporate governance in asset quality of banks: comparison between government-owned and private banks. Managerial Finance, Vol. 49 No. 4, pp. 724-740. <https://doi.org/10.1108/MF-04-2022-0165>

5. Kaushik Dey, Seema Sharma and Amlendu Dubey, (2022). Can renewable energy drive industrial growth in developing economies? evidence from India. *International Journal of Energy Sector Management*, Vol. 17 No. 5, 2023 pp. 950-971.
6. Prakash, N., Singh, S., Sharma, S. (2022). Contemporaneous or causal? Evaluating the triumvirate of insolvency risk, capitalization and efficiency in Indian commercial banking. *Managerial Finance*. 48(1), 136-157. <https://doi.org/10.1108/MF-02-2021-0070>.
7. Prakash, N., Srivastava, B., Singh, S., Sharma, S., Jain, S. (2022). Effectiveness of social distancing interventions in containing COVID-19 incidence: International evidence using Kalman filter. *Economics & Human Biology*. 44:101091, 1-18. <https://doi.org/10.1016/j.ehb.2021.10109>.
8. Prakash, N., Singh, S., Sharma, S. (2022). A non-parametric framework for evaluating governance-efficiency-productivity associations in commercial banking. *Journal of Economic Studies*. Vol. 49 No. 7, 2022 pp. 1159-1180, 1159-1180. <https://doi.org/10.1108/JES-06-2021-0273>
9. Gupta, P.K. and Sharma, S. (2022). Corporate governance determinants of asset quality in an emerging economy: evidence from Indian banks. *Journal of Advances in Management Research*. *Journal of Advances in Management Research* Vol. 19 No. 4, 2022 pp. 560-577 <https://doi.org/10.1108/JAMR-05-2021-0182>.
10. Prakash, N., Singh, S., Sharma, S. (2021). Technological diffusion, banking efficiency and Solow's paradox: A frontier-based parametric and non-parametric analysis. *Structural Change and Economic Dynamics*, 58, 534-551. <https://doi.org/10.1016/j.strueco.2021.07.007>.
11. Pankaj S. Rawat, Seema Sharma (2021). TFP growth, Technical Efficiency and Catch-up Dynamics: Evidence from Indian Manufacturing. *Economic Modelling*, Volume 103, 105622, ISSN 0264-9993, <https://doi.org/10.1016/j.econmod.2021.105622>.
12. I. Goel, S. Sharma, S. Kashiramka (2021). Effects of the COVID-19 pandemic in India: An analysis of policy and technological interventions. *Health Policy and Technology*, 10 (1) (2021), 151-164.
13. Prakash, N., Singh, S. and Sharma, S. (2021). Recognizing nonmonotonicity of exogenous determinants in a stochastic profit efficiency framework. have banks overinvested in IT capital? *International Journal of Emerging Markets*. <https://doi.org/10.1108/IJOEM-06-2020-0665>.
14. Gupta, P.K. and Sharma, S. (2021). Literature review on effect of microfinance institutions on poverty in South Asian countries and their sustainability. *International Journal of Emerging Markets*, Vol. 18 No. 8, 2023 pp. 1827-1845. <https://doi.org/10.1108/IJOEM-07-2020-0861>.
15. Bhatia V, Sharma S (2021). Expense based performance analysis and resource rationalization: case of Indian railways. *Socio-Economic Planning Sciences* 76, 100-975.

16. Isha Goel, Seema Sharma & Smita Kashiramka. (2020). The Water Poverty Index: An application in the Indian context. *Natural Resources: A United Nations Sustainable Development Journal*, 44 (3), 195–218.
17. Khalid, A.M., Sharma, S., & Dubey, A.K. (2020). Some Methodological Issues in India's SDG Index Report 2019. *Economic and Political Weekly*, 55 (32-33) 29-31.
18. Khalid, A.M., Sharma, S., & Dubey, A.K. (2020). Concerns of developing countries and the sustainable development goals: case for India. *International Journal of Sustainable Development & World Ecology*, 28 (4), 303-315.
19. Sapan Thapar and Seema Sharma (2020). Factors impacting wind and solar power sectors in India: A survey-based analysis. *Sustainable Production and Consumption*, 21, 204-215.
20. Khalid, A.M., Sharma, S., & Dubey, A.K. (2019). Data Gap Analysis, Indicator Selection, and Index Development: A Case for Developing Economies. *Social Indicators Research*, 148, 893–960.
21. Sapan Thapar, Seema Sharma and Ashu Verma (2019). Analysis of factors impacting wind and solar sectors - Challenges to sustainable development - Four Country Study. *Sustainable Development*, 27, 481-511.
22. Ahmad M. Khalid, Seema Sharma and Amlendu Dubey (2018). Sustainable Development Framework: A Case for India. *Natural Resources: A United Nations Sustainable Development Journal*, 42, 185–200.
23. Thapar, S., Sharma, S., & Verma, (2018). Key determinants of wind energy growth in India: Analysis of policy and non-policy factors. *Energy Policy*, 122, 622-638.
24. Thapar, S., Sharma, S., & Verma, (2018). Analyzing solar auctions in India: Identifying key determinants. *Energy for Sustainable Development*, 45, 66-78.
25. Umesh Kumar Shukla & Seema Sharma (2017). The potential of electricity imports to meet future electricity requirements in India, *The Electricity Journal* 30(3), 71-84.
26. Thapar, S., Sharma, S., & Verma, A. (2017). Local community as shareholders in clean energy projects: Innovative strategy for accelerating renewable energy deployment in India. *Renewable Energy*, 101, 873-885.
27. Meel, P. K. and Sharma, S. (2017). Effective Tax Rates for Indian Companies Postliberalisation. *Economic and Political Weekly*, 52(30), 21-24.
28. Sharma, S. and Dhvani, Gambhir (2017). The 'BIBA' Woman of India: A Model for Women Economic Empowerment. *South Asian Journal for Business and Management Cases*, 6(1), 89-99.
29. Thapar, S., Sharma, S., & Verma, A. (2016). Economic and environmental effectiveness of renewable energy policy instruments: Best practices from India. *Renewable and Sustainable Energy Reviews*, 66, 487-498.

30. Kumar, M. and Sharma, S. (2016). Forecasting tourist in-flow in South East Asia: A case of Singapore. *Tourism & Management Studies*, 12(1), 107-119.
31. Kundi, M., & Sharma, S. (2016). Efficiency of glass firms in India: an application of data envelopment analysis. *Journal of Advances in Management Research*, 13(1), 59-74.
32. Sharma, S., Juneja, A., Lakhiwal, A., & Tantia, A. (2016). Paper Boat in India: Beating the Giants. *Prabandhan: Indian Journal of Management*, 9(4), 7-17.
33. Gambhir, D., & Sharma, S. (2015). Productivity in Indian manufacturing: Evidence from the textile industry. *Journal of Economic and Administrative Sciences*, 31(2), 71-85.
34. Gambhir, D., & Sharma, S. (2015). Are exporting firms more productive in the Indian textile industry? *Measuring Business Excellence*, 19(4), 72-84.
35. Gambhir, D., & Sharma, S. (2015). What is pulling down productivity in Indian manufacturing? An evaluation for the textile industry. *International Journal of Indian Management & Strategy*, Volume 20, Issue 2.
36. Mini Kundi, Seema Sharma (2015). Analyzing technical and super efficiency of Aluminium Firms in India. *Benchmarking: An International Journal*, Vol. 24, Issue 6, pp. 1729-1741.
37. Kundi, M. Seema Sharma (2015). Efficiency Analysis and Flexibility: A Case Study of Cement Firms in India. *Global Journal of Flexible Systems Management*”, 16(3), 221–234.
38. Gambhir, D. and Sharma, S. (2013). Women & business in India: A review of literature. *IRACST- International Journal of Commerce, Business and Management (IJCMB)*, Vol. 2 No.5 October 2013.
39. Ishita G. Tripathi, S.S. Yadav, and Sharma, S. (2013), “Efficiency and productivity in the process and product patent regimes: Empirical evidence from the Indian pharmaceutical industry”, *International Journal of Economics and Business Research*, Vol. 6, No. 1, pp: 1-19.
40. Shrivastava, N., Sharma, S., and Chauhan, K. (2012), “Efficiency assessment and benchmarking of thermal power plants in India, *Energy Policy*, Vol. 40, pp: 159-176.
41. Thomas, V. J., Sharma, S., Jain, S. K. (2011), Using patents and publications to assess R&D efficiency in the states of the USA, *World Patent Information*, Vol. 33, pp: 4-10.
42. Tripathi, I.G., Yadav, S.S. and Sharma, S. (2011), Indian pharmaceutical industry in the product patent regime: An analysis of growth determinants and constraints, *Journal of Marketing and Management* Vol. 2, No.2, 1-21.
43. Sharma, S., Momaya, K. K. and Manohar, K. (2010) “Assessing the Performance of Telecommunication Industry in India: a Data Envelopment Analysis”, *Journal of International Business and Economy* Vol. 11, issue 2, pp: 29-47.

44. Sharma, S. and Sharma, M. (2010). Analyzing the Technical and Scale Efficiency of Small Industries in India: State-wise Cluster Study. *Measuring Business Excellence*, Vol. 14, issue 2, pp. 54-65.
45. Sharma, S. (2009). Analyzing the Technical and Scale Efficiency Performance of Cement Firms in India: An Application of Data Envelopment Analysis. *Journal of Advances in Management Research* Vol. 5, issue 2, pp.56-63.
46. Sharma, S., V. Upadhyay and B. Tyagi (2010). Growth Accounting Analysis of Textile Industry in India in post-Liberalisation Era. *International Journal of Productivity and Quality Management* Vol. 5, issue 2, 2010.
47. Sharma, S. and Gupta, Sanjeev (2010). Malmquist Productivity and Efficiency Analysis for Indian Banking Industry. *International Journal on Business Excellence*, 3(1), 65-76.
48. Pankaj Priya, Rajat Baisya and Sharma, S. (2010). Television Advertisement and Children's buying behavior. *Marketing Intelligence and Planning*, 28(2), 151-169.
49. Sharma, S. and V.J. Thomas (2008). Inter Country R&D Efficiency Analysis: An Application of Data Envelopment Analysis. *Scientometrics*, 76(3), 483-501.
50. Sharma, S. and V. Gautam (2008). The Future of Indian Industry: An Exercise in Scenario Building. *International Journal of Business Environment*, 2(1), 66-88.
51. Sharma, S. (2007). Liberalisation and productivity growth: a case of Indian cement industry. *International Journal of Productivity and Quality Management*, 2(3), 307-321

Publications in National Journals

52. Tripathi, I.G., S.S. Yadav and Seema, Sharma S. (2013), Impact of Product Patents on Indian Pharmaceutical Industry: A Summary of Recent Literature, *Indian Economic Journal*, 59(4) 34-51.
53. Ishita G. Tripathi, S.S. Yadav and Seema Sharma (2012), Research and Development, patenting and performance: Evidence from Indian pharmaceutical industry, *DESIDOC Journal of Library & Information Technology*, 32(3), 228-232.
54. Ishita G. Tripathi, S.S. Yadav and Seema Sharma (2011), FDI flows into the Indian pharmaceutical industry: An analysis of trends and constraints, *Journal of Intellectual Property Rights*, 16(4), 330-334.
55. Ishita G. Tripathi, S.S. Yadav and Seema Sharma (2010), Indian pharmaceutical MSMEs in the product patent regime: A performance analysis, *Small Enterprises Development, Management and Extension Journal* 37(2), 33-48.
56. Sharma, S. (2010), "Policy Environment Analysis in Indian Fertiliser Industry", *Journal of Global Economy*, 6(5), 402-411.

57. Seema Sharma and Lokesh Singhla (2009). Indian Telecom Equipment Industry: Challenges and Prospects. *Economic and Political Weekly* 40(1), 03 -09.
58. Ishita G. Tripathi, S.S. Yadav, Seema Sharma (2009). Global Economic Crisis and Challenges for the BRIC Economies. *The Chartered Accountant*, 57(11), 1945-1951.
59. Pankaj Priya, Rajat Baisya and Seema Sharma (2009). Store Brands Can Set 'em Apart", *Indian Management*, 48(7).
60. Sharma, S. and Upadhyay, V. (2008). An Assessment of Productivity Behaviour in Pre- and Post-Liberalisation Era: A case of Indian Fertiliser Industry. *Indian Economic Journal*, 56(1), 126-137.
61. Rakesh Gupta, Sarika Tomar and Seema Sharma (2006). Challenges for Management Education Evolving strategies for low end B-Schools. *Journal of Educational Planning and Administration*, 20(3), 321-332 July. New Delhi.
62. Seema Sharma (2004). Productivity Performance of Indian Automobile Industry. *Productivity*, 45(2), 239-244, National Productivity Council (NPC), New Delhi.

Books

- STATISTICS for Business and Economics: Using Microsoft Excel & Powered by IBM – SPSS, 3rd Edition, Wiley India, ISBN: 9789354246326, 2022.
- STATISTICS for Business and Economics: Using Microsoft Excel & Powered by IBM – SPSS, 2nd Edition, Wiley India, ISBN: 9788126570942, 2018.
- STATISTICS for Business and Economics: Powered by IBM – SPSS, 1st Edition, Wiley India, ISBN: 9788126559343, 2016.
- Analysing Productivity Performance of Indian Fertiliser Industry: An Econometric and Growth Accounting Analysis, Lambert Academic Publishing, Germany, ISBN: 978-3-8433-6139-2, 2010.
- Productivity and Quality: A multidisciplinary Perspective, (Edited), Tata Mcgraw-Hill Publishing Company Limited, New Delhi, ISBN: 0-07-061079-7, 2006.

Sponsored Research Projects/Consultancy Assignments

S. No.	Project Title	Sponsoring Agency
1	Empowering Women Entrepreneurs through Digital and Financial Literacy	EXL Analytics, India
2	Development of Machine Learning based algorithms for EV load forecasting and charging Infrastructure Requirement	Tata Power Company Limited, India
3	Co-innovation in Electric Vehicle (EV) sector in India: Cross-sectoral and collaborative research between India and Japan for low-carbon transition	Indian Council of Social Science Research, India
4	Evaluation Partner for the Awards for Excellence in District Skill Development Planning under SANKALP	Ministry of Skills Development & Entrepreneurship, New Delhi India
5	Evaluation Study for the Scheme of Shahari Waqf Sampatti Vikas Yojana and Qaumi Waqf Board Taraqqiati Scheme	Ministry of Minority Affairs, New Delhi India
7	Concurrent Evaluation and Monitoring of National Food Security Act, 2013	Ministry of Food & Consumer Affairs India
8	Punjab Sewa Kendras: Operations and Opportunity	BLS International Services Limited India
9	Collaborative Decision Making on Container Supply Chains	University Grants Commission United Kingdom
10	Impact Evaluation Study of the Scheme Sub-mission on Seeds and Planting Material under National Mission on Agriculture Extension and Technology	Ministry of Agriculture & Farmers Welfare, N.D India
11	Digitization of Education: An Efficient, Effective and Sustainable Solution for the Future	Chapter Apps Incorporated, USA United States of America

13	Assessing the Production efficiency of SME Units in Readymade Garments Industry: a Study of Okhla Cluster in NCR	Indian Council of Social Science Research India
14	Socio-Cultural Ananalysis - Ganga River Basin Management Plan	Ministry of Environment & Forests(GOI) India
15	SWOT and Training Need Analysis	Dronacharya College of Engineering, Gurgaon India
16	SWOT and Training Need Analysis	PD Memorial Rel. & Edu. Asso. (HR), India
17	SWOT and Training Need Analysis	Maharishi Markandeshwar University, Ambala, Haryana, India
18	SWOT and Training Need Analysis	N.C. College of Engineering, Panipat Haryana, India
19	SWOT And Training Need Analysis	Directorate of Technical Education, Haryana, India
21	Domestic Requirement of Forged Components in Power Sector Industry in India: A Special Focus on Turbine Blader	Hilton Metal Forging Ltd., Mumbai, India

Training Programmes Conducted at IIT Delhi

- Executive Management Programme in Entrepreneurship Development: 6 Months online Programme, July-Dec, 2022
- Executive Management Programme in Entrepreneurship Development: 8 Months online Programme, Sept-May, 2021
- Certificate Programme on Advanced Data Analysis in Management (ADAM), Nov 23-27, 2015.
- Certificate Programme On Advanced Data Analysis in Management (ADAM), Dec 24-25, 2011.

Awards/Honours/Fellowships

- 2022: Teaching Excellence Award by IIT Delhi
- 2019-2022: Sulaiman Mutawa Chair Fellowship by IIT Delhi
- 2020: Achievement Award by The Times of India
- 2012: Best Professor in Economics Award under Dewang Mehta Business School Awards by Hindustan Unilever Limited
- 2008-2012: Outstanding Young Faculty Fellowship by IIT Delhi
- 1999-2001: Senior Research Fellowship by University Grant Commission, India
- 1997-1999: Junior Research Fellowship by University Grant Commission, India
- 1996: Gold Medal in M.Sc. (Economics)
- 1994: Gold Medal in B.Sc. (Economics)
- 1994: Roll of Honour Award in B.Sc. (Economics) Third Year
- 1993: Roll of Honour Award. In B.Sc. (Economics) Second Year
- 1992: Roll of Honour award in B.Sc. (Economics) First Year

Administrative Experience

- Chairperson, Internal Complaint Committee, IIT Delhi (2023 - till date)
- Head, Department of Management Studies (2019-2022)
- Head, Hindi cell (2018-2020), IIT Delhi
- Associate Head, Hindi Cell (2016-18), IIT Delhi
- Warden, Kailash House (2010-2017), IIT Delhi
- Member, Committee for Offshore Campus at UAE (2022), IIT Delhi
- Chairperson, Economics Group (2014-19; 2022- till date), Department of Management Studies, IIT Delhi
- Chairperson, Alumni Affairs (2016-2018), Department of Management Studies, IIT Delhi
- Secretary, DRC (2012-16), Department of Management Studies, IIT Delhi
- Secretary, DFB (2010-12), Department of Management Studies, IIT Delhi
- In-charge, Case Study Cell (2014-16), Department of Management Studies, IIT Delhi
- Co-ordinator, Minor Area for UG Curriculum, Department of Management Studies, IIT Delhi
- Information Officer (2006-2008), Department of Management Studies, IIT Delhi
- Time Table In-charge (2008-10), Department of Management Studies, IIT Delhi
- Co-ordinator, MBA (PT) (2012-2014), Department of Management Studies, IIT Delhi
- Co-ordinator, Management Students Society (2016-2018), Department of Management Studies, IIT Delhi

Apart from above, served as Expert Panel Member for faculty selection different IITs, IIMs, NITs, Universities, DRDO and the Corporate Sector

Academic Qualification

- 1998-2004 Ph. D. (Economics) Indian Institute of Technology (IIT) Delhi, India
- 1994-1996 M.Sc. (Economics) Guru Nanak Dev University, Punjab, India
(Gold Medalist)
- 1991-994 B.Sc. (Economics) Guru Nanak Dev University, Punjab, India
(Gold Medalist)

Membership of Various Committee/Societies

- International Society for Productivity and Quality Research, USA
- The Indian Econometric Society, India
- Indian Economic Association, India
- Global Institute of Flexible Systems Management Society, India
- Indian Political and Economic Association, India