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EDUCATION

PhD in Urban and Regional Planning

2011-2016

Assessment of Socio-economic Vulnerability: A Case of
Three Districts in West Bengal Using Select Indicators

Indian Institute of Technology
Kharagpur

Master of City Planning

2009-2011

Specialization in City Planning

Indian Institute of Technology
Kharagpur

Bachelor of Architecture

2004-2009

Indian Institute of Engineering
Science and Technology Shibpur

ADMINISTRATIVE EXPERIENCE

Head of the Department

August 2016 – June 2020

Member and Chairperson of various departmental and
institute level committees

June 2015 – present

TEACHING EXPERIENCE

Assistant Professor

June 2015 – present

Department of Planning and Architecture
National Institute of Technology Rourkela
India

CONSULTANCY PROJECT

Master plan and landscape design of Industrial Training Institute, Hirakud with focus on sustainable measures (ongoing).

SPONSORED RESEARCH

Developing Guidelines for Trans-generational Cities and Urban Communities (Collaborative project with Indian Institute of Technology Kharagpur). Sponsored by Indian Council of Social Science Research (completed in October 2020)

CONTINUING EDUCATION AND OUTREACH

Expert trainer for Academic Certification Program on Infant-Toddler Caregiver friendly Neighbourhoods (ITCN) for Young Professionals organized by School of planning and Architecture, New Delhi, launched by National Institute of Urban Affairs (NIUA) in partnership with Bernard van Leer Foundation, Netherlands.

PUBLICATIONS

Book

Sarkar, B., Banerji, H. (2024). *Designing Trans-Generational Urban Communities: An Approach towards Inclusive Cities in the Indian Context*. Routledge India, Taylor and Francis Group, London, UK. Doi: <https://doi.org/10.4324/9781032623634>

Book chapters

Saha, N., Sarkar, B. (In press). Perspectives on convergence of NbS and agile city principles in Tier II industrial cities of India. In: C.M. Firoz, Dashora, L.K., Shaw, R. (Eds) *Nature-based Solutions for Urban and Peri- Urban Areas - For Resilient and Sustainable Urbanization*. Disaster Risk Reduction: Methods, Approaches and practices, Springer, Japan.

Sarkar, B., Bhaumik, S., Banerji, H., Sen, J. (2022). ICT-Based Smart Solution to Assessment of Socio-economic Vulnerability and Necessary Interventions by Local Government. In: Patnaik, S., Sen, S., Ghosh, S. (eds) *Smart Cities and Smart Communities*. Smart Innovation, Systems and Technologies, vol 294. Springer, Singapore. https://doi.org/10.1007/978-981-19-1146-0_18

Sarkar, B., Banerji, H., Sen, J. (2014). Patterns of Socio - Economic Deprivation and Its Impact on Quality of Life: Case of A Less Developed Region in West Bengal, India. In: Sisiopiku., P.V., Ramadan, E.O. (Eds) *Civil engineering and Urban Planning*, Athens Institute for Education and Research.

Journal articles

Sarkar, B., Banerji, H. (2023). Understanding age-friendliness of cities and urban communities through the perceptions of senior citizens in Kolkata, India. *Current Science*, vol.125, no.2, pp.138-147. [10.18520/cs/v125/i2/138-147](https://doi.org/10.18520/cs/v125/i2/138-147)

Sarkar, B., Singh, S.S. (2023). Accessibility as the determinant of attending educational opportunities in rural India. *Proceedings of the Institution of Civil Engineers - Municipal Engineer*, vol 176, issue 2, pp.106-121. [10.1680/jmuen.22.00024](https://doi.org/10.1680/jmuen.22.00024)

Sarkar, B., Bhaumik, S., Banerji, H., Sen, J. (2022). ICT-Based Smart Solution to Assessment of Socio-economic Vulnerability and Necessary Interventions by Local Government. In: Patnaik, S., Sen, S., Ghosh, S. (eds) *Smart Cities and Smart Communities*. Smart Innovation, Systems and Technologies, vol 294. Springer, Singapore. https://doi.org/10.1007/978-981-19-1146-0_18

Sarkar, B., Singh, S.S. (2022). Cumulative opportunity-based accessibility measurement framework in rural India. *Transport Policy*, vol.117, no.3, pp.138-151. [10.1016/j.tranpol.2022.01.009](https://doi.org/10.1016/j.tranpol.2022.01.009)

Sarkar, B., Singh, S.S. (2022). Transport accessibility and affordability as the determinant of non-motorized commuting in rural India. *Transport Policy*, vol.118, no.1, pp.101-111. <https://doi.org/10.1016/j.tranpol.2022.01.025>

Sarkar, B., Banerji, H., Sen, J. (2014). Patterns of Socio - Economic Deprivation and Its Impact on

Quality of Life: Case of A Less Developed Region in West Bengal, India. Athens Journal of Health, vol.1, no.4, pp.271-286

Sarkar B., Banerji H., Sen J., (2012). Strategies to Cope Up Socio-Economic Vulnerability for The Backward Regions of India. SPANDREL, Issue 4 (spring) pp 116.

Conference papers

Chakravarty, p., Sarkar, b., Saha, N. (communicated). Understanding Current Trend in Urban Liveability: A Bibliometric Analysis. In Urban Transition 2024, Barcelona, Spain.

Sarkar, B., Dharani, K.S. (2022). Sustainable Revolution for a Greener Planet – Possibilities in the Indian Context. in Proceedings of REAL CORP 2022, 27th International Conference on Urban Development, Regional Planning and Information Society, European urban research association - R.E.A.L. C.O.R.P., Vienna, Austria. [CORP2022_54.pdf](#)

Sarkar, B., Mandal, M. (2022). Impact of Therapeutic Urban Landscape in urban Architecture", in 50th Conference Shaping the Future of Urban Research: Book of Abstract, Urban Affairs Association, New York., USA. [50th Annual Conference of the Urban Affairs Association \(xcdsystem.com\)](#)

Mandal, M., Das, A., Sarkar, B., Banerji, H. (2021). Making Places and Creating Identity Through Organized Green Spaces: Case of A Tier-2 Indian Industrial City, in vol. 1 no. 01: Smart Green Connected Societies. [Making places and creating identity through organized green spaces: Case of a tier-2 Indian industrial city | SPAST Abstracts](#)

Sarkar, B., Banerji, H. (2019). Every Citizens Right to The City: Understanding Trans-Generational Cities, in 49th Conference Claiming Rights to the City: Community, Capital, and the State: Book of Abstract, Urban Affairs Association, Los Angeles, USA

Sarkar B., Banerji H., Sen J., (2016). Assessment of Socio-economic Vulnerability using select Indicators. 52nd Annual Congress of International Society of City and regional Planners (ISOCARP).

Sarkar B., Banerji H., Sen J., (2014). Megacities: The Challenges and Apprehensions. International Symposium on Megacities organized by Centre for Built Environment (CBE), Kolkata, India.

Sarkar B., Banerji H., Sen J. (2014). Patterns of Socio-Economic Deprivation and Its Impact on Quality of Life: Case of A Less Developed Region in West Bengal, India. Athens Journal of Health, Vol 1, Issue 4, pp 271-286

Sarkar B., Banerji H., Sen J., (2014). Patterns of socio-economic deprivation and its impact on quality of life: Case of a less developed region in West Bengal, India. 4th Annual International Conference on Urban Studies and Planning organized by Athens Institute for Education and Research (ATINER), Athens, Greece.

Banerji H., Sarkar B., (2014). Protecting Environment through Sustainable Urban Planning: Green Cities. AISECT University, Bhopal.

Sarkar B., Banerji H., Sen J., (2014). Social Equity: A Missing Link towards Sustainable Development. National Symposium on Sustainability and Built Environment: Searching for Synergies organized by IEST, Shibpur.

Sen J, Banerji H., Sarkar B., (2013). Inclusive Planning - Significance and Different Approaches Case of KMA. Indian Cities in Transition Technical papers (part II) Journal of Institute of Town Planners, India, Vol 2 pp 221

Sarkar B., Banerji H., Sen J., (2013). Growth of Micro, Small and Medium Scale Enterprises: A Creative Economic Base to Achieve Less-vulnerable Livelihood in Developing Nations. International Conference on Architecture and Engineering in Urban Development organized by International Centre for Research and Development (ICRD), Colombo, Sri Lanka

Sarkar B., Banerji H., Sen J., (2013). Land Management Systems in India: Some Issues. National Symposium on Managing Lands in Urban Fringes: Controlling Urban Sprawl organized by ITPI West Bengal Chapter, Kolkata.

Sarkar B., Banerji H., Sen J., (2012). 'Cities under Positive Change' - Towards Sustainable Urbanization. International Conference on Cities under Change organized by Centre for Built Environment (CBE), Kolkata, India.