

Curriculum Vitae: Narayan Chandra Nayak

Professor (Economics)

Department of Humanities and Social Sciences
Indian Institute of Technology
Kharagpur, West Bengal-721302, India

Tel: +91-3222-283696/280697

FAX: +91-3222-282270

Mobile: 09434739725

Email: ncnayak@hss.iitkgp.ac.in;
nayak114@gmail.com



MAJOR RESEARCH INTERESTS AND PROFESSIONAL EXPERTISE

Development and Macro Economics; Public Policy

RESEARCH ISSUES WORKED ON/WORKING CURRENTLY

- Coastal Hazards and Vulnerability Assessment
- Drivers of Forest Loss
- Ganga River Environment and Management
- Payments for Environmental Services
- Green Technology and Industrial Performance
- Economics of Entrepreneurship
- Food and Nutrition Security
- Transition Rate in Education
- Choice of Healthcare
- Infrastructure and Human Development
- Participation and Quality of Public Service Delivery
- Growth and Employment Intensity
- Regional Income Inequalities and Convergence
- MGNREGA Processes, Procedures, Convergence, Distress Migration and Impact Assessment
- Financial Inclusion
- MFI and Mission Drift
- Household Financing
- Economics of Corruption
- Economics of Generosity
- Determinants and Impact of FDI

EDUCATION

Ph.D. (Urban Labour Economics); M.Phil (Economics); M.A. (Economics): Utkal University

PROFESSIONAL AND ADMINISTRATIVE EXPERIENCE

Total Research and Teaching Experience: 29 years

Since March 2023 : Head, School of Education, IIT Kharagpur

Oct 2019-Sept 2022 : Head, Department of HSS, IIT Kharagpur

Since April 2014 : Professor (Economics), IIT Kharagpur

2004-2015 : Associate Professor (Economics), IIT Kharagpur

2000- 2004 : Assistant Professor (Economics), IIT Kharagpur

1993-2000 : Lecturer & Senior Lecturer, Government of Arunachal Pradesh

PUBLICATIONS

- Journals: 49
- Chapters in Edited Volumes: 17
- Papers in Conference Proceedings: 7
- Books & Monographs: 2

I. Research Papers (Journals)

1. **Narayan Chandra Nayak**, Bimal Kishore Sahoo, Alok Ranjan Mohanty (2023), Do Mahatma Gandhi NREGA and convergence measures arrest distress migration? An empirical assessment of the migration prone regions of Odisha, India, *Letters in Spatial and Resource Sciences*, Springer (in Press) (DOI: 10.1007/s12076-023-00332-0).
2. Chandrima Chatterjee, **Narayan Chandra Nayak**, Jitendra Mahakud (2022), Factors affecting the incidence of health insurance penetration among elderly: evidence from India, *Journal of Public Affairs*, Wiley, e2848 (<https://doi.org/10.1002/pa.2848>).
3. Sweta Sen, **Narayan Chandra Nayak**, William K Mohanty (2022), Estimating household vulnerability to cyclonic disturbances: An investigation of tropical cyclone shocks in coastal villages of eastern India, *International Journal of Disaster Risk Reduction*, Elsevier, 83, 1–17 (<https://doi.org/10.1016/j.ijdr.2022.103404>)
4. Jyotirmayee Satapathy, **Narayan Chandra Nayak** and Jitendra Mahakud (2022), Do various dimensions of food security affect household welfare differently? An empirical investigation of India's national food security act, *Letters in Spatial and Resource Sciences*, Springer, 1–32 (<https://doi.org/10.1007/s12076-022-00312-w>)
5. Sweta Sen, **Narayan Chandra Nayak**, William K Mohanty, Chhotu Kumar Keshri (2022), Vulnerability and risk perceptions of hydrometeorological disasters: a study of a coastal district of Odisha, India, *Geojournal*, Springer, 1–21 (<https://doi.org/10.1007/s10708-022-10637-0>)
6. Chandrima Chatterjee, **Narayan Chandra Nayak**, Jitendra Mahakud (2021), Magnitude and determinants of inpatient health expenditure among the elderly in India, *International Journal of Health Planning and Management*, Wiley, 37(3), 1402–1420 (<https://doi.org/10.1002/hpm.3410>)
7. Sweta Sen, **Narayan Chandra Nayak**, Willaim Kumar Mohanty (2021), Long-term forecasting of tropical cyclones over Bay of Bengal using linear and non-linear statistical models, *Geojournal*, Springer, 1–23 (<https://doi.org/10.1007/s10708-021-10543-x>)

8. **Narayan Chandra Nayak**, Bimal Kishore Sahoo, Mamata Jenamani, Alok Ranjan Mohanty & Runa Sen Chatterjee (2021), Does Convergence of Rural Development Schemes Improve Household Welfare? An Investigation of Mahatma Gandhi National Rural Employment Guarantee Act in Odisha, India, *Indian Journal of Labour Economics*, Springer, 64, 1023–1042 (<https://doi.org/10.1007/s41027-021-00343-9>)
9. Sunil Sangwan, **Narayan Chandra Nayak**, Harshita, Vikash Sangwan (2021), Borrowers' Credit Risk Factors, Perception toward Repayment Interventions and Moral Hazard in Loan Delinquency: An Investigation of Indian Microfinance Institutions, *Applied Economics*, Taylor and Francis, 53(56), 6554–6569 (<https://doi.org/10.1080/00036846.2021.1946478>)
10. Sunil Sangwan, **Narayan Chandra Nayak**, Vikash Sangwan, Ashis Kumar Pradhan (2021), Covid-19 pandemic: Challenges and ways forward for the Indian microfinance institutions, *Journal of Public Affairs*, Wiley, e2667, 1–4 (doi.org/10.1002/pa.2667)
11. Sunil Sangwan & **Narayan Chandra Nayak** (2021), Examining mission drift in client targeting among Indian for-profit microfinance institutions: A multidimensional approach, *Journal of Public Affairs*, Wiley, e2622, 1–13 (DOI: 10.1002/pa.2622).
12. Jyotirmayee Satapathy, **Narayan Chandra Nayak** & Jitendra Mahakud (2022), Investigating preferences between cash and in-kind transfers among the food subsidy beneficiaries of India, *Journal of Public Affairs*, Wiley, 22(3), e2592, 1–11, (DOI: 10.1002/pa.2592).
13. Jyotirmayee Satapathy, **Narayan Chandra Nayak** & Jitendra Mahakud (2020), Multidimensional impact of food security on household welfare: Evidences from a household survey in three Indian states, *International Journal of Social Economics*, Emerald, 47(7), pp. 913-932 (DOI: 10.1108/IJSE-01-2020-0023).
14. Sunil Sangwan & **Narayan Chandra Nayak** (2020), Factors influencing the borrower loan size in microfinance group lending: A survey from Indian Microfinance Institutions, *Journal of Financial Economic Policy*, Emerald, 13(2), pp. 223-238 (DOI: 10.1108/JFEP-01-2020-0002).
15. Sunil Sangwan & **Narayan Chandra Nayak** (2020), Outreaching the Poor under Microfinance Institutions in India: Rhetoric versus Realities, *Journal of Public Affairs*, Wiley, 20(4): e2161, 1-5 (<http://doi.org/10.1002/pa.2161>).
16. Sunil Sangwan, **Narayan Chandra Nayak**, & Debabrata Samanta (2020), Loan Repayment Behavior among the Clients of Indian Microfinance Institutions: A Household Level Investigation. *Journal of Human Behavior in the Social Environment*, Routledge, 30(4), pp. 474–497.
17. Aditi Sen, Runa Sen Chatterjee, **Narayan Chandra Nayak** & Jitendra Mahakud (2020), Determinants of Individual Giving Behavior in Urban India, *International Journal of Voluntary and Nonprofit Organizations*, Springer, 30, pp. 271–285.
18. Sunil Sangwan & **Narayan Chandra Nayak** (2019), Do Outreach approaches differ between Self-Help Group-Bank Linkage and Microfinance Institution-based Microfinance? Evidences from Indian states, *Journal of Social and Economic Development*, Springer, 21(1), pp. 93–115.
19. Pratap Kumar Mahakur & **Narayan Chandra Nayak** (2019), An Investigation of Intrastate Income Disparities and Regional Convergence in Odisha, *Journal of Social and Economic Development*, Springer, 21(2) pp. 288-308.

20. Pratap Kumar Mahakur & **Narayan Chandra Nayak** (2019), Intrastate Income Inequalities in Odisha: Examining Decomposition by Regions and Broad Sectors, *Odisha Economy Discussion Series 1*, Nabakrushna Choudhury Centre for Development Studies, Bhubaneswar, April.
21. Chandrima Chatterjee, **Narayan Chandra Nayak**, Jitendra Mahakud & Suhita Chopra Chatterjee (2018), Factors affecting the Choice of Health Care Utilisation between Private and Public Services among the Elderly Population in India, *International Journal of Health Planning and Management*, Wiley, 34(1), pp. e736–e751.
22. **Narayan Chandra Nayak**, Pulak Mishra, Bhagirath Behera & Runa Sen Chatterjee (2018), What Determines Labour Force Participation in MGNREGA? An Investigation in Odisha, *Indian Journal of Labour Economics*, Springer, 61(3), pp. 493–514.
23. Amar Kumar Mohanty, **Narayan Chandra Nayak**, & Bani Chatterjee (2016), Does Infrastructure affect Human Development? Evidences from Odisha, India?, *Journal of Infrastructure Development*, Sage, 8(1), 1–26.
24. Debabrata Samanta & **Narayan Chandra Nayak** (2015), Determinants of People's Participation: A Study of Rural West Bengal, India, *Development in Practice*, Routledge, 25(1), 71–85.
25. Falguni Pattanaik & **Narayan Chandra Nayak** (2014), Economic Freedom and Economic Growth in India: What is the Empirical Relationship?, *Economic Change and Restructuring*, Springer, 47(4), 275–298.
26. **Narayan Chandra Nayak** & Debabrata Samanta (2014), Understanding the Role of Participation in Public Service Delivery: Evidences from Rural West Bengal, India, *International Journal of Public Administration*, Routledge, 37(12), 875–884.
27. Vani Archana, **N C Nayak**, & P. Basu (2014), Impact of FDI in India: State-wise Analysis in Econometric Framework, *Global Journal of Human-Social Science: E Economics*, Global Journal Inc. (USA), 14(2), 14–24.
28. Falguni Pattanaik & **Narayan Chandra Nayak** (2014), Macroeconomic Determinants of Employment Intensity of Growth in India, *Margin: The Journal of Applied Economic Research*, Sage, 8(2), 137–154.
29. Debabrata Samanta & **Narayan Chandra Nayak** (2014), People's Participation and Public Service Delivery: A Review of Issues and Determinants, *Journal of the Indian School of Political Economy*, 26(1-4), 167–191.
30. Falguni Pattanaik & **Narayan Chandra Nayak** (2014), Agricultural Growth in Odisha during 1970-2012: An Analysis, *IUP Journal of Applied Economics*, IUP Publications, 13(1), 62–79.
31. Falguni Pattanaik & **Narayan Chandra Nayak** (2013), Economic Freedom and Employment in India, *South Asian Journal of Macroeconomics and Public Finance*, Sage, 2(1), 59–79.
32. Falguni Pattanaik & **Narayan Chandra Nayak** (2013), Employment Intensity of Secondary Sector in India: Trends, Patterns and Determinants, *Journal of Regional Development and Planning*, JRDP, 2(2), 157–173
33. Amrita Basu & **Narayan C Nayak** (2013), Assessing Forest Cover Change and Relative Forest Sustainability Index for the Districts of Orissa, *Indian Journal of Regional Science*, 45, 144–156.

34. Falguni Pattanaik & **Narayan Chandra Nayak** (2013), Trends and Forecasting of Employment Intensity of Growth in India, *Journal of Asia Pacific Economy*, Routledge, 18(3), 438–459.
35. Falguni Pattanaik & **Narayan Chandra Nayak** (2012), Estimating the Magnitude of Working Poor in India: An Analysis of Growth-Employment-Poverty Linkages, *Journal of Social and Economic Policy*, Serials, 9(2), 123–141.
36. Amrita Basu & **Narayan Chandra Nayak** (2011), Underlying Causes of Forest Cover Change in Odisha, India, *Forest Policy and Economics*, Elsevier, 13(7), 563–569.
37. Falguni Pattanaik & **Narayan Chandra Nayak** (2011), Employment Intensity of Growth in India and its Structural Determinants, *Asian Economic Review*, 53(1), 173–188.
38. Pulak Mishra, Bhagirath Behera, & **Narayan Chandra Nayak** (2011), Payments for Environmental Services: Issues and Implications for India, *Economic and Political Weekly*, 46(20), 64–68.
39. Falguni Pattanaik & **Narayan Chandra Nayak** (2011), Employment Elasticity of Service Sector in India: Trend and Determinants, *International Proceedings of Economics Development and Research*, IACSIT Press, Malaysia, 1, 62–66.
40. Falguni Pattanaik & **Narayan Chandra Nayak** (2010), Experiences of Structural Transformation in Orissa, *Indian Journal of Regional Sciences*, 43(1), 17–26.
41. Sharmita Dhar, Narayan Chandra Nayak, & Bani Chatterjee (2010), An Analysis of Hierarchical Distribution of Education in India, *Journal of the Indian School of Political Economy*, Journal of the Indian School of Political Economy, 22(1-4), 97–126.
42. Pulak Mishra, Bhagirath Behera, & **Narayan Chandra Nayak** (2010), A Development Delivery Institution for the Tribal Communities: Experience of the National Rural Employment Guarantee Scheme in India, *Development Policy Review*, Wiley, 28(4), 457–479.
43. Falguni Pattanaik & **Narayan Chandra Nayak** (2010), An Examination of Structural Transformation in the Indian Economy, *International Journal of Business Policy and Economics*, Serial Publications, 3(2), 327–337.
44. Amar Kumar Mohanty, **Narayan Chandra Nayak**, & Bani Chatterjee (2009), Infrastructure Development across Districts of Orissa, *Indian Journal of Economics*, University of Allahabad, 89, 619–640.
45. Vani Archana, **Narayan C Nayak** & Partha Basu (2007), Foreign Direct Investment in India: The Emerging Horizon, *Indian Economic Review*, Delhi School of Economics, New Delhi, 42(2), 255–266.
46. Sharmita Dhar, Bani Chatterjee, & **Narayan C Nayak** (2007), Dynamics of Higher Education in Post-independent India, *Business Studies*, Calcutta University, 26(1), 13–25.
47. **Narayan Chandra Nayak** & Amar Kumar Mohanty (2007), Orissa's Preparedness for Industrialization: An Account of its Infrastructure Base, *Journal of Indian Institute of Public Administration*, 15, 173–193.
48. Vani Archana, Partha Bas, & **Narayan Chandra Nayak** (2005), Foreign Direct Investment in Indian Industries: A Panel Data Analysis, *Journal of International Business and Economics*, Academy of International Business and Economics, California State University, 4(1), 120–128.
49. Partha Basu, **Narayan Chandra Nayak**, & Vani Archana (2005), Determinants of Foreign Direct Investment in India: An Industry-wise Analysis, *The ICFAI Journal of Industrial Economics*, ICFAI University Press, Hyderabad, 2(3), 58–67.

II. Research Papers (Edited Volumes/Book Chapters)

1. **Narayan Chandra Nayak**, Sharmita Dhar, & Pratap Kumar Mahakur (2016), Educational Outcomes in Odisha: Issues and Trends, In Pulin B. Nayak, Santosh C. Panda, and Prasanta K. Pattanaik (eds.), *The Economy of Odisha: A Profile*, Oxford University Press, 303–349.
2. Debabrata Samanta & **Narayan Chandra Nayak** (2014), Participation and Decision Making: A Study from Rural West Bengal, In P.P. Balan, S. George and T.P. Kunhikannan (eds.), *Decentralization and Development: Experiences and Experiments*, Kerala Institute of Local Administration (KILA), 113–128.
3. Bhagirath Behera, Pulak Mishra, & **Narayan Chandra Nayak** (2011), Determinants of Household Participation in National Rural Employment Guarantee Scheme in India, In J. Ardil et al. (eds.), *International Scientific Research and Experimental Development*, World Academy of Science, Engineering and Technology, 1147-1174.
4. **Narayan Chandra Nayak** & Falguni Pattanaik (2011), Economic Growth, Employment and Poverty, In Bimal Mohanty (ed.), *Economic Development in India: Issues and Challenges*, New Century Publications, New Delhi, pp. 242-262. (co-authored with F Pattanaik)
5. **Narayan Chandra Nayak** & Falguni Pattanaik (2010), Agricultural Employment in India in Post-Reform Period, In J Lenka (ed.), *Current Issues in Indian Agriculture*, Serials Publication, New Delhi, 51–66.
6. **Narayan Chandra Nayak** (2010), Infrastructure and Human Development in India, In H S Rout and S B Murthy (eds.), *Human Development in India: challenges and Policies*, New Century Publications, New Delhi. 201–221.
7. Amar K Mohanty, **Narayan C Nayak**, & Bani Chatterjee (2009), Human Development in Orissa: An Inter-District Analysis from the Perspective of Infrastructure, In H S Rout and P K Panda (eds.), *Human Development: Dimensions and Strategies*, New Century Publications, New Delhi. 327–354.
8. Falguni Pattanaik, **Narayan Chandra Nayak**, & Trupti Mishra (2008), Trends in Employment Intensity of Economic Growth in the Post-Reform Era across Major Indian States, In R K Mishra and Nandita Sethi (eds.), *Rethinking India's Growth Strategy Services and Manufacturing*, Concept Publisher, New Delhi, 120–134.
9. **Narayan Chandra Nayak** & Debabrata Samanta (2007), Universal Primary Education in India: Issues and Challenges, In Narayan C Nayak, Kishor Goswami and Bani Chatterjee (eds.), *Economic Reforms, Human Welfare and Sustainable Development in India*, New Century Publications, New Delhi, 86–106.
10. Sharmita Dhar, **Narayan Chandra Nayak**, & Bani Chatterjee (2007), Hierarchical Distribution of Female Education in India, In Narayan C Nayak, Kishor Goswami and Bani Chatterjee (eds.), *Economic Reforms, Human Welfare and Sustainable Development in India*, New Century Publications, New Delhi, 109–127.
11. Himanshu Sekhar Rout & **Narayan Chandra Nayak** (2007), Health and Health Economics: A Conceptual Framework, In Himansu Sekhar Rout and Prasant Panda (eds.), *Health Economics in India*, New Century Publications, New Delhi, 13–29.
12. **Narayan C Nayak** and Rudra P Pradhan (2006), Infrastructure and Modern Farm Practices in Agriculture: A Study of Interregional Disparities in Orissa, In B. Behera, P.K. Das & F.C. Sahoo (eds.), *Selected Works on Development and Research in the Post-Reforms Era: Infrastructure Special II*, B. C. Publications, 18–42.

13. **Narayan Chandra Nayak** & Amrita Basu (2005), Meeting Millennium Development Goals in India: Rhetoric and Realities, In M.C. Behera (ed.), *Globalization and Rural Development*, Common Wealth Publishers, New Delhi, 40–55.
14. Amrita Basu & **Narayan Chandra Nayak** (2003), Sustainable Development of Natural Resources: An Indian Perspective, In Kaushik Deb and Leena Srivastava (eds.), *Transition towards Sustainable Development in South Asia*, The Energy and Resources Institute, New Delhi, 277–294.
15. **Narayan Chandra Nayak** (2002), Human Development and Poverty: Evidence across Indian States, In A Saikia (Ed.), *Population, Environment and Challenges of Development*, Akanksha Publishing, New Delhi, 15–36.
16. **Narayan Chandra Nayak** (1998), Techno-institutional and Sociological constraints of agriculture in Arunachal Pradesh, In M.C. Behera, (ed.), *Agricultural Modernization in Eastern Himalayas*, Commonwealth Publishers, New Delhi, 88–99.
17. **Narayan Chandra Nayak** (1997), Constraints to Agricultural Growth in Arunachal Pradesh, In M.C. Behera, & N.C. Roy (eds.), *Trends in Agrarian Structure in the Hills of North-East India* (pp. 122-130), Commonwealth Publishers, New Delhi, 122 –130.

III. Publications in Conference Proceedings

1. Pratap Kumar Mahakur & **Narayan Chandra Nayak** (2019), Nature and Pattern of Development in Odisha: An Investigation of Intrastate Income Inequalities, National Conference on Growth and Regional Development in India: Recent Experiences and Emerging Perspectives, 13-15 May, organized by Institute for Human Development (IHD), New Delhi, supported by NITI Aayog, 15th Finance Commission and ICSSR, New Delhi (Reading Materials).
2. Chandrima Chatterjee, **Narayan Chandra Nayak**, Jitendra Mahakud (2019), Predictors of Hardship Financing in Healthcare: An Investigation of Indian Elderly, American Society of Business and Behavioral Sciences Proceedings, 26, 150-150.
3. Falguni Pattanaik & **Narayan Chandra Nayak** (2012), Linking Economic Freedom to Economic Growth in India: Empirical Evidences, 2012 Cambridge Business and Economics Conference, June 27-28, Cambridge, UK, 1–19.
4. Ankit Bhatia, P Jha, & **Narayan Chandra Nayak** (2012), Small States Vs. Big States: A Theoretical and Empirical Report on Indian States, Conference Proceedings of The 16th Annual Conference of Indian Political Economy Association, 26-27 October 2012, Department of Humanities and Social Sciences, IIT Roorkee, 339–346.
5. **Narayan Chandra Nayak** (2002), Human Development in India in Post-Reforms Period: Issues and Challenges, In M. Azali, M.B. Yusoff, M.S. Habibullah, S.A. Mansor, R. Mustafa, S. Mohamad, Z. Yusop, A. Radam, A. Hassan and S. Pillai (eds.), *Proceedings: The Impact of Global Competitive Environment on Asian Economies, Business and Society*, Asia Pacific Economic and Business Conference, Serdang: Universiti Putra Malaysia Press, 1, 335–344.
6. Rudra Prakash Pradhan & **Narayan Chandra Nayak** (2002), Rural Infrastructure and Agricultural Productivity: The Pre- and Post-Reforms Scenario in Orissa, an Agrarian State of India, In M. Azali, M.B. Yusoff, M.S. Habibullah, S.A. Mansor, R. Mustafa, S. Mohamad, Z. Yusop, A. Radam, A. Hassan and S. Pillai (eds.), *Proceedings: The Impact of*

Global Competitive Environment on Asian Economies, Business and Society, Asia Pacific Economic and Business Conference, Serdang: Universiti Putra Malaysia Press, 1, 57–65.

7. Rudra P Pradhan & **Narayan Chandra Nayak** (2002), *Regional Variation in Rural Infrastructure: An Empirical Evidence in India*, In International Conference on Eco-balance and Life Cycle Assessment in India, Indira Gandhi Institute of Development Research, Mumbai, Maharashtra, India, Published in Draft Proceedings Volume, 171–175.

IV. Books and Monographs

1. **Narayan Chandra Nayak**, Kishor Goswami & Bani Chatterjee (2007), *Economic Reforms, Human Welfare and Sustainable Development in India*, New Century Publications, New Delhi. (Edited)
2. Bhagirath Behera, Pulak Mishra, **Narayan Chandra Nayak**, & V Ratna Reddy (2010) *Payments for Environmental Services (PES): A Review of Experiences across Countries*, *RULNR-CESS Monograph 2* (Co-authored with B Behera, P Mishra and V Ratna Reddy). (Monograph)

V. Invited Talks, Papers Presented at Conferences/Seminars/Workshops (India & Abroad)

1. 2022: Keynote Speaker on "New Education Policy in Contemporary India: Issues and Challenges" at the 3rd Annual Conference of the Indian Economics and Allied Sciences Association organized at Symposia College, Agra, 17-20 November 2022.
2. 2022: Chair a Panel Discussion on "Higher Education and Employability" at the 3rd Annual Conference of the Indian Economics and Allied Sciences Association organized at Symposia College, Agra, 17-20 November 2022.
3. 2021: Resource Person to give a talk on "Writing and Publishing Thesis" at the ICSSR-sponsored Course on "Quantitative Research Methods and Use of Statistical Software for Social Science Researchers" organised by Guru Ghasidas Vishwavidhyalaya, Bilaspur, Chhatisgarh, 21 December.
4. 2021: Resource Person to give a talk on "Thesis and Paper Design" at the TEQIP III organized by the Department of Humanities and Sciences, Indian Institute of Technology Kharagpur, 20 December.
5. 2021: Resource Person to give a talk on "Contemporary Research in Development Economics" at the TEQIP III organized by the Department of Humanities and Sciences, Indian Institute of Technology Kharagpur, 22 December.
6. 2021: Invited Speaker on "The Need for Interdisciplinary Research: The Whys and Hows?", at the Online Faculty Development Program on "Progressive Approaches for Excellence in Teaching, Learning and Research (Amid Impending Paradigm Shift in Education)" organized by KIIT deemed to be University, Bhubaneswar, Odisha, 24 June.
7. 2021: Invited talk on "Cash Versus in-Kind Mode of Public Transfer", at the Webinar organised by the Department of Economics in collaboration with IQAC, KKS Women's College, Balasore, Odisha, 31 March.
8. 2020: Inaugural Talk on "Why should we care about Public Policy", at the Winter School 2020: Introduction to Policy Research organized by Moolya Foundation, New Delhi, 26 December.
9. 2019: Presented a co-authored paper with Sunil Sangwan on "Do Microfinance Institutions promote Financial Inclusion? An Investigation of the Mission Drift Phenomenon among the

Indian Microfinance Institutions", at the 'Symposium on Inclusive Development and Growth Dynamics at Indian Institute of Technology Kharagpur, 14-15 February.

10. 2019: Invited talk on "Nature and Pattern of Development in Odisha: An Investigation of Intrastate Income Inequalities" under the Session on 'Contrasting Patterns of Development: Case Studies of Selected States – Bihar and Odisha' at the National Conference on Growth and Regional Development in India: Recent Experiences and Emerging Perspectives, 13-15 May, organized by the Institute for Human Development (IHD), New Delhi.
11. 2019: Resource Person to give a lecture on "Macroeconomic Predictors of Economic Development" at the Mid-Career Training Programme (MCTP) on "Data Mining Techniques and Data Analytics" held during 25 March-5 April at Vinod Gupta School of Management, IIT Kharagpur.
12. 2018: Invited talk on "Thesis Writing" at the Dept of HSS, NIT Rourkela, at the Faculty Development Programme.
13. 2018: Presented a co-authored paper with Sunil Sangwan on "Determining Good and Bad Credit Risks in MFI Lending: Evidences from Select States of India" at the 54th Annual Conference of the Indian Econometric Society (TIES). Jammu, India: Shri Mata Vaishnodevi University. March 7–9.
14. 2018: Resource Person to speak on "Thesis and Proposal Writing" at the Faculty Development Programme, KIIT Law School, KIIT Deemed to be University, Bhubaneswar, June 25.
15. 2018: Series of Lectures at the Department of Economics, Dibrugarh University, during March 2018 as a Visiting Professor.
16. 2018: Invited talk on "Microfinance Movement in Odisha: An Investigation of Mission Drift" at the 'International Seminar on Social and Political Movements in Odisha Past and Present', Indian Institute of Technology Kanpur, 21-23 February.
17. 2017: Presented a co-authored paper with Sunil Sangwan on "Role of Default Rate in Regional Disparity of Bank-SHG Microfinance Distribution: Evidences from Indian States" at the state-level seminar on Public Sector Banks at Crossroads and the way Forward. Bhubaneswar, Odisha: Birla Global University. October 14.
18. 2017: Presented a co-authored paper with Pratap Kumar Mahakur on 'Intra-regional Disparities in Agricultural Income in Odisha: Investigating Unconditional Convergence' at the 22nd Biennial Conference of Association of Indian Economic and Financial Studies (AIEFS) held at Nabakrushna Choudhury Centre for Development Studies (NCDS), Bhubaneswar, 31st July – 1st August.
19. 2016: Presented a co-authored paper with Sunil Sangwan on "Regional Disparities in Microfinance Distribution: Evidence from Indian States" at the ICEFR 2016: International Conference on Economics and Finance Research. Paris, France: World Academy of Science, Engineering and Technology. October 24–25.
20. 2016: Presented a co-authored paper with Sunil Sangwan on "Microfinance Penetration: Evidences from Indian States" at the 52nd Annual Conference of the Indian Econometric Society (TIES). Kerala, India: Indian Institute of Management Kozhikode. January 4–6.
21. 2016: Invited talk on "MGNREGA: What determines People's Participation?" at the State level Seminar, Fakir Mohan Autonomous College, Balasore, Odisha, on 9 March.
22. 2014: Paper on "Trends in Regional Inequalities in Odisha: An Examination of Convergence Hypothesis" by Pratap Kumar Mahakur and Narayan Chandra Nayak at the 18th Annual Conference of Indian Political Economy Association held at Giri Institute of Development

Studies (GIDS) Lucknow, 15–16 November.

23. 2014: Presented a paper with Debabrata Samanta on "Spaces of People's Participation in Democratic Decision Making and Underlying Household Characteristics Determining Participation: A Study on rural West Bengal", at the 4th Development Meet organized by Central University of Bihar.
24. 2014: Presented a paper with Debabrata Samanta on "An Assessment of Basic Services delivered to rural people of West Bengal" at the International Conference on Deepening Democracy Through Participatory Local Governance, organized by the Government of Kerala.
25. 2013: Presented Paper on "Convergence Initiatives under MGNREGA and Sustainable Rural Development: Experience of Odisha and West Bengal" authored by P. Mishra, B. Behera, N. C. Nayak, N. Jaiswal, at the National Workshop on MGNREGA and the Emerging Rural Context: Learning from Indian States organized by Gujarat Institute of Development Research during December 10-11.
26. 2013: Presented a paper with Debabrata Samanta on "Participatory Practices in Rural Areas: A Study of Gram Panchayats in West Bengal", at the National Conference on Decentralised Governance and Changing Paradox of Development in Rural Areas, Central University of Jharkhand, Ranchi.
27. 2013: Invited Talk on "Research in Economics" at the Faculty Development Programme, KIIT University, Bhubaneswar.
28. 2012: Presented a co-authored paper with S. Dhar and P. K. Mahakur on 'Educational Outcomes in Odisha: Trends and Issues' in the Symposium of "The Handbook of Economy of Odisha" Organised by Nabakrushna Choudhury Centre for Development Studies, Bhubaneswar and Govt. of Odisha, India during 6th to 8th December.
29. 2012: Paper on "Employment Intensity of Secondary Sector in India: Trends, Patterns and Determinants" at the 54th Annual Conference of the Indian Society of Labour Economics, 20-22 December, BHU, Varanasi with Falguni Pattanaik as a co-author.
30. 2012: Presented a paper with Debabrata Samanta on "People's Participation in Local Level Decision Making Process: A Study of Spaces, Forms and Dimensions in the context of rural West Bengal" at the International Conference on Democratic Decentralisation and People's Participation, International Sociological Association and Kerala Institute of Local Administration, Thrissur.
31. 2011: Invited talk on "Does Growth Matter: India's Experiences with Employment" at the UGC sponsored Refresher Course in 'Economics and Human Development' at Utkal University, Bhubaneswar, during 21 Nov-11 Dec.
32. 2011: Invited talk on "People's Participation: Forms, Determinants and Linkage with Quality of Public Service Delivery" at the UGC sponsored Refresher Course in 'Economics and Human Development' at Utkal University, Bhubaneswar, during 21 Nov-11 Dec.
33. 2011: Invited talk on "Linking Infrastructure to Human Development" at the UGC-sponsored Refresher Course in 'Economics and Human Development' at Utkal University, Bhubaneswar, during 21 Nov-11 Dec.
34. 2011: Presented a paper with B Behera and P Mishra on "Determinants of Household Participation in National Rural Employment Guarantee Scheme in India" at the World Academy of Science, Engineering and Technology, International Scientific Research and Experimental Development, August, Paris, France.

35. 2011: Presented a paper with B Behera and P Mishra on "Markets for Environmental Services in India: Opportunities and Challenges" at the One-Day Seminar on "Climate Change and Markets: Opportunities, Challenges, and Policy Concerns", 28 January 2011, India Habitat Centre, New Delhi.
36. 2010: Presented a paper with Falguni Pattanaik on "Employment Intensity of Service Sector in India: Trends and Determinants" at the International Conference on Business and Economic Research, ICBER 2010, Kuala Lumpur, Malaysia, November 26-28.
37. 2010: Presented a paper with Falguni Pattanaik on "Growth, Poverty and the size of Working Poor in India: A State-level Analysis" at the 52nd Annual Conference of the Indian Society of Labour Economics (ISLE), December 17-19, Department of Economics, Karnataka University, Dharwad (with Falguni Pattanaik)
38. 2010: Employment Guarantee Act and Rural Labour Forces: An Experience in Orissa, 52nd Annual Conference of the Indian Society of Labour Economics (ISLE), December 17-19, Department of Economics, Karnataka University, Dharwad.
39. 2010: Human Development and the Role of Infrastructure; Invited Talk at North Orissa University, Orissa
40. 2010: 'Linking Infrastructure to Human Development, Plenary Speaker at the National Conference on "Challenges of Human Development", January 22-23, Yanam.
41. 2009: 'Sustainable Development: Issues and Dilemmas', Chief Speaker, F M University, Balasore.
42. 2009: 'Experiences of Structural Transformation in Orissa', 92nd Annual Indian Economic Association Conference, KIIT University, Bhubaneswar, December 27-29 (with F Pattanaik).
43. 2009: National Rural Employment Guarantee Scheme and Tribal Communities in India: Role of Institutions, International Seminar on "Adivasi/ST communities in India: Development and Change", Institute for Human Development, New Delhi, August 27-29 (with Pulak Mishra and Bhagirath Behera).
44. 2008: Impact of FDI in India: State-wise analysis in Panel Data Framework, 66th International Atlantic Economic Conference, Montreal, Canada, October 9-12. (with Vani Archana and P Basu)
45. 2008: Natural Disasters and its Impact: Development Issues and Dilemmas, Lead Speaker, National Level Seminar on *Natural Disaster and its Impact on Indian Economy* at U N College, Soro, Orissa.
46. 'Need for E-Governance', Invited Lecture at a Workshop on E-Learning and E-Governance, Fakir Mohan Autonomous College, Balasore, Odisha.
47. 2005: 'Foreign Direct Investment in Indian Industries: A Panel Data Analysis', Annual Conference of Academy of International Business and Economics, Las Vegas, USA, October 16-19. (with Vani Archana and P Basu)
48. 2003: 'Drivers of Forest Loss in Orissa', In 6th Biannual Research and Training Workshop organized by the South Asian Network for Development and Environmental Economics, Colombo, Sri Lanka, June 10-15.
49. 2003: 'Sustainability Revisited: Development and Environmental Degradation in the Forestry Sector', In Indian Social Science Congress on 'Challenges to Democracy in India: From Critique to Construction', IIT Kharagpur. (with Amrita Basu)
50. 2003: 'Foreign Direct Investment in India: Regional- and Firm-wise Distribution', In Indian Social Science Congress on 'Challenges to Democracy in India: From Critique to Construction', IIT Kharagpur. (with Vani Archana)

51. 2003: 'Foreign Direct Investment and Foreign Aid in India: Transparency Verses Fungibility', In Indian Social Science Congress on 'Challenges to Democracy in India: From Critique to Construction', IIT Kharagpur.
52. 2002: 'Human Development in India in Post-Reforms Period: Issues and Challenges', In Asia Pacific Economic and Business Conference, Sarawak, Malaysia, October 2-4.
53. 2002: 'Rural Infrastructure and Agricultural Productivity: The Pre- and Post-Reforms Scenario in Orissa, an Agrarian State of India', In Asia Pacific Economic and Business Conference, Sarawak, Malaysia, October 2-4. (with R P Pradhan)
54. 2002: 'Rural Infrastructure and Agricultural Development in India', In International Conference on Population, Development and Environment, Birla Institute of Technology and Science (BITS), Pilani. (with R P Pradhan)
55. 2001: 'Poverty and Human Development in the States of Eastern India: The Post-Reforms Scenario', In 33rd Regional Science Conference, North-Eastern Hill University, Shillong.
56. 2001: 'Female Literacy in Orissa: An Overview', In Workshop on Women and Development in India - Issues & Challenges, Birla Institute of Technology and Science (BITS), Pilani.
57. 'Need for E-Governance', Invited Lecture at a Workshop on *E-Learning and E-Governance*, Fakir Mohan Autonomous College, Balasore, Odisha.

SPONSORED RESEARCH PROJECTS (COMPLETED): 16

1. Techno-Economic Feasibility of Integrated Aquaculture Options within Irrigated Systems, Sponsored by ICAR, New Delhi (Co-Principal Investigator)
2. Ganga River Basin Environment Management Plan: Socioeconomic and Cultural Aspects (West Bengal), Sponsored by MoEF, New Delhi (Principal Investigator)
3. Historical Evidence, Myth and Geophysical Modeling to Assess the Tectonic Movement and Risks Associated with Odisha Coastal Heritage Belt, Sponsored by MHRD, New Delhi under SANDHI, IIT Kharagpur (Co-Principal Investigator)
4. A Creative Economic & Urban Design based Pilot Project of Kumartuli Area, Kolkata (in Association with Kolkata Museum of Modern Arts), Sponsored by MHRD, New Delhi under SANDHI, IIT Kharagpur (Co-Principal Investigator)
5. Appraisal of NREGA Processes and Procedures in Orissa. Sponsored by UNDP for the Ministry of Rural Development, Government of India, New Delhi. (Principal Investigator)
6. Monitoring Convergence of MGNREGS with other Ongoing Schemes of the Government in Orissa, Sponsored by UNDP for the Ministry of Rural Development, Government of India, New Delhi. (Principal Investigator)
7. Impact Assessment of Mahatma Gandhi NREGS in Orissa: A Study of Mayurbhanj and Ganjam District, Sponsored by ICSSR, New Delhi (Principal Investigator)
8. Assessment of the Convergence Activities under Mahatma Gandhi NREGA in Odisha, sponsored by NIRD and PR under MoRD, New Delhi (Principal Investigator)
9. Social Impact Assessment of National Food Security Act, Sponsored by MHRD, New Delhi, under the project Sustainable Food Security through Technological Intervention for Production, IIT Kharagpur (Co-Principal Investigator)
10. Improving End-of-Life Care (EOLC) for the Elderly by Integrating Indic Perspectives on Ageing and Dying, Sponsored by MHRD, New Delhi under SANDHI, IIT Kharagpur (Co-Principal Investigator)

11. Economic Impact Assessment of National Food Security Act", Sponsored by MHRD, New Delhi, under the project Sustainable Food Security through Technological Intervention for Production, IIT Kharagpur (Principal Investigator)
12. Reconfiguring Dana (Generosity) as a new Institutional Financial Mechanism for Social Enterprises, Sponsored by MHRD, New Delhi under SANDHI, IIT Kharagpur (Principal Investigator)
13. To Improve End-of-Life Care by Reconfiguring Old Age Homes (OAHs) in Varanasi, in Collaboration with IIT BHU, Sponsored by MHRD, New Delhi (Co-Principal Investigator)
14. Old age Homes in Varanasi: Exploring the Holistic Wellbeing of the Elderly and Financing Towards Developing a Sustainable and Integrated Model, in Collaboration with IIT BHU, Sponsored by MHRD, New Delhi (Principal Investigator)
15. Mahatma Gandhi NREGA, Distress Migration and Skill Development: An Assessment in Odisha, Sponsored by ICSSR, New Delhi (Principal Investigator)
16. Evaluating Effectiveness of The Channels of Financial Inclusion: A Study of Rural Odisha, Sponsored by ICSSR under IMPRESS, New Delhi (Principal Investigator)

SPONSORED RESEARCH PROJECTS (ONGOING): 01

- Covid 19 and its Impact on Food and Nutrition Security and Livelihoods of Vulnerable Households in India (LVH), sponsored by Shastri Indo-Canadian Institute, 5, Bhai Vir Marg, New Delhi-110 001, India in collaboration with the University of Alberta, Canada (Principal Investigator)

CONSULTANCY PROJECTS (COMPLETED): 04

1. Comprehensive Socio-Economic Survey of Pakri-Barwadih Coal Mining Project (Client: NTPC Ltd, Noida. (Co-Consultant)
2. Payments for Environmental Services (PES): A Review of Experiences across Countries. Sponsored by Research Unit for Livelihoods and Natural Resources, Centre for Economic and Social Studies, Hyderabad. (Co-Consultant)
3. Consultancy Services for Carrying out the Work Related to Planning and Designing of the R&R Colony for Odisha Ultra Mega Power Project at Sundargarh, Client: M/S PFC Consulting Ltd (Co-Consultant)
4. Evaluation of Remote Village Electrification Programme, Rooftop Solar System and Biogas in Odisha, Client: Planning and Convergence Department, Government of Odisha, Bhubaneswar (Principal Consultant)

CONSULTANCY PROJECT (ONGOING): 01

- Comprehensive Development Plan (CDP) of Talcher Coalfields, Mahanadi Coalfields Limited (MCL), CI, GoI (CPTC), Client: Mahanadi Coalfields Limited, Odisha 9C0-Consultant)

THESIS SUPERVISION

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|--|----|
| (a) Ph.D. | |
| Completed | 12 |
| Ongoing | 9 |
| (b) MS (Completed) | 02 |
| (c) Masters (M.Sc Project) (Completed) | 26 |

DETAILS OF Ph.D. GUIDANCE (COMPLETED)

1. Effect of Infrastructure and Adoption of Modern Farm Practices on Agricultural Productivity in Orissa: Dr. Rudra Prakash Pradhan
2. Foreign Direct Investment in India: Industry and State Level Analyses: Dr. Vani Archana
3. Determining Forest Sustainability and the Underlying Causes of Forest Cover Change in Orissa: Dr. Amrita Basu
4. Trends and Determinants of Employment Intensity of Growth in India: Dr. Falguni Pattanaik
5. Trends and Determinants of Transition Rate of Education in India: Dr. Sharmita Dhar
6. Impact of Infrastructure on Human Development in Odisha: Dr. Amar Kumar Mohanty
7. People's Participation and Public Service Delivery in East Midnapur District of West Bengal: Dr. Debabrata Samanta
8. Intrastate Income Disparities and Regional Convergence: A Study of Odisha, India: Dr. Pratap Kumar Mahakur
9. Mission Drift and Repayment Risk among Indian Microfinance Institutions: Issues and Determinants: Dr. Sunil Sangwan
10. Food Security Program and Household Welfare: Evidences from India: Dr. Jyotirmayee Satapathy
11. Health Care of the Elderly in India: An Investigation of Utilization, Expenditure and Financing: Dr. Chandrima Chatterjee
12. Cyclonic Disturbances in Asia: Long-Term Forecasting, Impacts and Responses with Special Reference to the Indian East Coast: Ms. Sweta Sen

DETAILS OF MS THESIS GUIDANCE (COMPLETED)

1. Vulnerability and Risk Assessment of Natural Hazards in Puri-Konark Coastal Belt, Odisha: Ms. Sweta Sen
2. Individual Giving Behavior in Urban India: Evidences from Select Cities: Ms. Aditi Sen

CONFERENCES/SYMPOSIA/TRAINING PROGRAMMES COORDINATED

1. 'TEQIP II' on "Research and Research Methods in Economics and Finance" at the Department of Humanities and Social Sciences, Indian Institute of Technology Kharagpur, 20-24 December 2021.
2. 'Symposium on Inclusive Development and Growth Dynamics, Organised by Departments of Humanities and Social Sciences and Architecture and Regional Planning, Indian Institute of Technology Kharagpur in Collaboration with Asian Institute of Public Policy and Development Studies, 14-15 February 2019.

3. 'Small Industries Management Programme' for unemployed youths funded by the Small Industries Development Bank of India (SIDBI). 'Strategies for Effective Management' for the executives of industries
4. 'Communication and Management Essentials' for industry and academic participants
5. 'Soft Skills and Group Discussion and Personal Interview' for industry and academic participants
6. 'Strategic Management: Theory and Practice' for industry and academic participants

MEMBERSHIP/EDITORIAL BOARD MEMBER

- Life Member, Indian Economic Association
- Life Member, The Indian Econometric Society
- Life Member, Indian Society of Labour Economics
- Life Member, Regional Science Association, India
- Life Member, Indian Political Economy Association
- Life Member, Indian Economics and Allied Sciences Association
- Joint Secretary (Eastern Region), Indian Economics and Allied Sciences Association
- Ex-Managing Editor, Odisha Economy Discussion Series, Nabakrushna Choudhury Institute of Development Studies, Bhubaneswar

PERSONAL PROFILE

Date of Birth : 12 June 1969
Sex : Male
Nationality : Indian
Marital Status : Married

Narayan Chandra Nayak