

# Curriculum Vitae

## I. Personal Details

### (A) Profile and Address

Name of the Candidate : **Sanatan Nayak**

Date of Birth : 05-01-1968

Sex and Marital Status : Male and Married

Address for Communication : **Professor,**  
Department of Economics,  
School for Social Sciences,  
B.B. Ambedkar University, VidyaVihar,  
Rae Bareli Road, Lucknow-226025, India  
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Orissa-758025, India

### (B) Educational Qualification

<b>Examination</b>	<b>Year</b>	<b>Board/University</b>
10 <sup>th</sup> Class	1985	Board of Secondary Education, Orissa.
10+2 Class	1987	Council of Higher Secondary Education, Orissa
B.A.(Hons) Economics	1990	Ravenshaw College (Utkal University, Orissa)
M.A. (Economics)	1992	University of Hyderabad, Hyderabad
M.Phil. (Economics)	1995	University of Hyderabad, Hyderabad
Ph.D.(Economics)	2002	University of Hyderabad, Hyderabad
M.SC. (Ecology and Environment)	2007	Sikkim Manipal University of Health, Medical and Technological Sciences, Gangtok

## **Thesis/Dissertation**

**M.Phil. in Economics:** Demand for Electricity in Industrial Sector in India.

**Ph.D. in Economics:** Irrigation and Economic Development: Cost Benefit Analysis of Sriramsagar Project in Andhra Pradesh, India.

## **(C) Teaching and Research Experience: 20 Years**

Teaching Areas :Advance Micro Economic Theories, Environmental Economics, Econometrics, Computer Applications in Economics to MA, M.Phil and Ph.D.Students.

Research Areas :Broad Areas are Environmental Economics, Agricultural Economics and Political Economy.

## **II. Publications, Projects and Other Academic Activities**

### **(A) Publications**

#### **(a) Book (s)**

1. **Climate Change and Agriculture in India: Vulnerability to Adaptation**, along with Surendra Singh Jatav, Books Clini, New Delhi, 2022.
2. **Land Degradation in India: Problems, Institutions and Sustainability**, Abhijeet Publication, New Delhi, 2014.
3. **Development Challenges: Afflicting Uttar Pradesh**, (co-eds),Manak Publications, New Delhi, 2006.
4. **Irrigation and Economic Development**, Abhijeet Publication, New Delhi, 2005.

#### **(b) Research Papers in Reviewed/Referred Journals**

1. Basic Amenities, Deficiency-induced Ailments, and Catastrophic Health Spending in the Slums of Lucknow, Uttar Pradesh, along with Surendra Singh in **Economic and Political Weekly**, 58(11), March, 2023.
2. Access and Determinants of Formal Agriculture Credit in Uttar Pradesh, India along with Surendra Singh in **Journal of Rural Development**, Vol. 41(2), April-June, 2022.
3. Measuring and Mapping Food Security Status of Rajasthan, India: A District-level Analysis along with Surendra Singh in **Frontiers in Sustainable Food Systems**, Vol. 6(4):1-17, 2022.

4. Biophysical Limits to Economic Growth and Sustainable Development: Perspectives and Approaches, Surendra Singh Jatav<sup>1</sup> and Sonali Narang, **Asian Journal of Geological Research**, Vol. 4(2): 33-44, 2021.
5. Coping to Covid-19 in Uttar Pradesh, India: Evidence from NSSO 76th Round Data along with Surendra Singh Jatav<sup>1</sup>, Surendra Meher<sup>1</sup>, Sonali Narang, **Current Urban Studies**, 2021, Vol.9: 206-217
6. Household's perception on COVID-19 vaccination in India, along with Surendra Singh, **The Journal of Community Health Management**, Vol 8, No.3, September 2021.
7. Assessment of Climate change Impact on Wheat Yield in Western Dry Region: A district Level Analysis, along with Surendra Singh, **Climate Change**, Vol 7, No.23, July 2021.
8. Development of gender sensitive vulnerability index for urban Indian slums, along with Surendra Singh, **Indian Journal of Traditional Knowledge**, Vol 19, No.3, July 2020.
9. Impact of COVID-19 Induced Lockdown on Health and Education: A Survey Based Study along with Alka Singh and Vibha Singh, **Innovative Journal of Medical and Health Science**, Vol.10, No.9, 2020.
10. Development of Sustainable Livelihood Security Index for Different Agro-Climatic Zones of Uttar Pradesh, India, along with Surendra Singh, **Journal of Rural Development**, Vol.39, No. 1, 2020.
11. Farmers' Perception and Micro-level Climate Adaptation Strategies in Bundelkhand Region, India, along with Surendra Singh and R.K. Kanojia, **Asian Journal of Advances in Agricultural Research**, Vol.12, No.3, 2020.
12. Future Climate Change impacts on Crop Productivity in Coastal Regions of India: A Panel Estimation, along with Surendra Singh and Alka Singh, **Climate Change**, Vol.6, No.21, 2020.
13. The Dynamics of Feminization in Indian Agriculture, along with Pragya Sharma, **Journal of Rural Development**, Vol.38, No.2, 2019.
14. Land Inequality and Agricultural Sustainability in Uttar Pradesh, along with Surendra Singh, **Asian Journal of Science and Technology**, Vol. 9, No.11, November, 2018.
15. Application of Indicators for Identifying Climate Vulnerable Areas in Sub-Tropical Regions of India, along with Surendra Singh, **Asian Journal of Multi-Dimensional Research (AJMR)**, Vol. 7, No.11, November, 2018.

16. Planned Adaptation Strategies and Climate Vulnerability: Evidences from NSSO Households level Data, along with Surendra Singh, **Research Review International Journal of Multidisciplinary**, Vol. 3, No.10, October, 2018.
17. Impact of River Pollution on Livelihood and Health: A Case Study of Washer Men Community Across River Gomti, Lucknow along with Soma Samant, **Man and Development**, Vol.XL, No.2, 2018.
18. Climate Variability and Agricultural Productivity in Uttar Pradesh, India: Evidence from Panel Data, along with Surender Singh, **Journal of Regional Development and Planning**, Vol. 7, No.2, 2017.
19. Drinking Water, Sanitation and Waterborne Diseases, along with Rashmi Tiwari, **Economic and Political Weekly**, June.10, Vol.LII, No. 23, 2017.
20. Climate Change and Indian Agriculture: Macro Perspectives, **South Asian Journal of Management Research**, Vol.8, No.2, 2016.
21. Environmental and Economic Sustainability of Land Reclamation: Insights from Sodic Land Reclamation Project, Uttar Pradesh, India, **Journal of Land and Rural Studies (JRS)**, Vol.3, No. 2, 2015, Sage, New Delhi.
22. Politics in Global Climate Change and Need of Alternative Economic Model, **South Asian Journal of Management Research**, Vol.6 No.2, 2014.
23. Pricing of Drinking Water in Uttar Pradesh, along with Rashmi Tiwari, **Review of Development and Change**, Vol.16, No.1, 2014.
24. Inclusive Growth and Participatory Approach: Extent, Implementation and Accumulations of Benefits, **Journal of Social and Economic Studies**, Vol. XXII, No.2, July- December, 2013.
25. Drinking Water and Sanitation in Uttar Pradesh: A Regional Analysis, along with Rashmi Tiwari, **Journal of Rural Development**, Vol. 32, No.1, January, March, 2013.
26. Distributional Inequity and Groundwater Depletion: An Analysis across Major States in India, '**Indian Journal of Agricultural Economics**', Vol.64, No.1, January-March, 2009.
27. Impact of Reform Process on Power Sector in Uttar Pradesh: Extent of Success and Failure, '**LMA Convention Journal**', Vol.4, No.1, 2008.
28. Environmental Degradation to Land Resources: The Creeping Disaster in Uttar Pradesh, **Review of Development and Change**, Vol. XI, No.1, Jan-June, 2006.

29. Agricultural Growth and Irrigation Development in Uttar Pradesh: The Linkages, Extent and Dimension of Success and Failure, **UPUERA Economic Journal**, Vol.1, No.1, pp-114-135, 2005.
30. Environmental Degradation to Land Resources: Regional analysis in Uttar Pradesh, **International Journal of Environment and Development (IJED)**, Vol.2, No.2, Pp.189-206, 2005.
31. Growth, Instability and Environmental Degradation in Andhra Pradesh Agriculture, **Journal of Rural Development**, Vol.24, No.2, 2005.
32. Demand for Electricity in Industrial Sector in India, **Asian Economic Review**, Vol.46, No.3, December, 2004.
33. Electricity Consumption and Industrial Growth in India: An Auto Regressive Analysis, **Productivity**, Vol.44, No.1, April-June, 2003.
34. Extent and Costs of Environmental Degradation in Sriramsagar Project Command Area: Integration with Cost Benefit Analysis, **ArthaVijnan**, Vol. XLIV, No.3-4, September-December, 2002.
35. Geographical Information System (GIS) application in Environmental Impact Assessment in India, **Third Concept**, Vol.16, No.190, December, 2002.
36. Trends of Agricultural Production and Fertilizer Consumption in Andhra Pradesh: A Post-Green Revolution Assessment, along with Sujit Mishra, **Agricultural Situation in India**, December, 2002.

**(c) Research Paper in Seminar/Conference Proceedings**

1. **Sanitation Deficiency and Induced Health Costs in the Slums of Lucknow, Uttar Pradesh**, the Tenth INSEE Biennial Conference, Organised by Centre for Economic and Social Studies, Hyderabad, November, 2019.
2. **Inequality in Drinking Water and Sanitation: Analysis in Urban Uttar Pradesh**, 21<sup>st</sup> Annual Conference of IPEA Conference Proceedings, Department of Humanities and Social Sciences, IIT, Delhi, 2017.
3. **Impact of River Pollution on Livelihood and Health: A case Study of Washermen Community Across Gomti River, Lucknow**, Seminar Proceedings of “**Healthy Rivers Ecosystem Benefits and Prosperity**”, along with Soma Samant, Organized by Indian Water Resources Society, Lucknow Centre, Lucknow, September, 2016.

2. Land Degradation and Agricultural Crisis: Evidence from Some Sodic Reclaimed Villages in Uttar Pradesh, **Seminar Proceedings of Agrarian Crisis in India: the Way Out**, organized NIRD, Hyderabad, November, 2012.
3. Environmental Degradation to Land Resources: Trend and Instability, **16<sup>th</sup> Annual Conference of IPEA Conference Proceedings**, Department of Humanities and Social Sciences, IIT, Roorkee, 2012.
4. Sustainable Rural Livelihood and Sodic Land: Evidence from some Villages in Uttar Pradesh, **15<sup>th</sup> Annual Conference of IPEA Conference Proceedings**, Department of Economics, Chaudhary Devi Lal University, Sirsa, Haryana, 2011.
5. Agricultural Deceleration in Uttar Pradesh: An Ecological, Institutional and Technological Investigation, **92<sup>nd</sup> IEA Annual Conference Proceedings, Vol-II**, School of Management, KIIT University, Bhubaneswar, Orissa, 2009.
6. Are Groundwater Irrigation Common Pool Resources? District Level Analysis in Uttar Pradesh, **Conference Volume**, 2<sup>nd</sup> Annual Conference of Uttar Pradesh-Uttaranchal Economic Association, at Giri Institute of Development Studies, Lucknow, 28-29 Oct., 2006.
7. Intensity of Land Degradation in Uttar Pradesh: District Level Analysis, **Souvenir**, State Land Use Board, Planning Department, Government of Uttar Pradesh, 2005.

#### **(d) Chapter in Editorial Books**

1. Pollution Control Mechanism: Approaches, extent and Issues at the Global Level, in Manish Kumar Verma (ed), **Environment and Sustainable Development: Perspectives and Issues**, Routledge, London, 2022.
2. The Potential Effect of Climate Change on Crops Productivity in Rural Uttar Pradesh: Evidence from Panel Data, in Paul, Sheeladitya and Subikash Chowdhury (eds.), **Issues in Rural Livelihood**, Progressive Publishers, Kolkata, 2018.
3. Welfare Economy and Land Acquisition: Theoretical Underpinnings, in Mishra Sujit Kumar and R. Siva Prasad (eds.), **Displacement, Impoverishment and Exclusion**, Aakar Publications, New Delhi, 2018.
4. From Agrarian Relations to Capability Approach: Amartya K.Sen, in R.C. Sobti, Kamal Jaiswal et al., (eds.), **The Indian Global Thinkers: Ideas, Thoughts and Contributions**, Babasaheb Bhimrao Ambedkar University, 2017, Lucknow.
5. Babasaheb Bhimrao Ambedkar and Land Holdings: An Assessment in Contemporary India, in Singh Ripu Sudan (ed.), **Dr. Ambedkar's Global Vision: The Emerging Knowledge in 21<sup>st</sup> Century**, MRI Publication Pvt. Ltd (OPC), Delhi, 2016.

6. Impact of Climate Change on Agriculture: Approaches, Extent and Dimensions, in Kumar Surinder and C.S. Verma, (eds.), **State and Capitalist Development in India: A Political Economy Perspective**, Aakar Publications, New Delhi, 2016.
7. Participatory Approach in Management of Natural Resources: A Reflection of Global Practices at Empirical Level, in Verma, Manish Kumar (ed.), **Globalization and Environment: Discourse, Policies and Practices**, RawatPublications, Jaipur, 2015.
8. Sodic Reclamation and Economic Sustainability, in Amarendra Das and P. Mishra (eds.), **Environment, Natural Resources and the Indian Economy**, New Century Publications, New Delhi, 2014.
9. Mining and Displacement in Odissa: Some Evidences, in Mishra, Padmja and A. Das (eds.), **Mining: Economic, Environmental and Social Implications**, Abhijeet Publications, New Delhi, 2013.
10. Agricultural Deceleration in Uttar Pradesh: An Ecological, Institutional and Technological Investigation, Thakur, A.K. and M.K. Sinha (eds), in **Structural Reforms and Agriculture**, DEEP and DEEP Publications Pvt. LTD., New Delhi, 2011.
11. Vicious Circle: Uttar Pradesh, in Ray Shoben (ed), **Backwaters of Development: Six Deprived States in India**, Oxford University Press, New Delhi, 2010.
12. Depletion and Inequity in Accessibility of Groundwater in Uttar Pradesh, in Karunyakara, L; L.C. Mallaiah and K.B. RatnaKumari (eds.), **Dalits and Human Development**, Abhijeet Publications, New Delhi, 2008.
13. Financial Performance of State Electricity Boards (SEBs): Impact on State Finances, in Singh, A.K. (ed.), **Twelfth Finance Commission Recommendations and Their Implications for the State Finances**, APH Publishing Corporation, New Delhi, 2008.
14. Environmental Degradation to Land Resources: Regional Analysis in Uttar Pradesh, in Jugle, V.B. and Y.V. Jugle (eds.), **The State of Indian Economy: Environment, Ecology and Resources**, Vol. IV, Serial Publications, New Delhi, 2006.
15. Determinants of Wages and Employment of Agricultural Labourers in Uttar Pradesh, in Diwakar, D.M. and G.P. Mishra (eds.), **Deprivation and Inclusive Development**, Manak Publications, New Delhi, 2006.
16. Rural Poverty in Uttar Pradesh: An Analysis of Employment and Wage Rates of Agricultural Labourers, in Kalpagam, U., Nisha Srivastava, D. M. Diwakar (eds.), **Labour and Poverty**, Segment Books, Delhi, 2004.

**(e) Working Paper**

1. Inequity in Distribution of Water Resources: A study on Groundwater Irrigation across States in India, **Working Paper, GIDS**, No.194, 2008.
2. Economic Growth and Human Development Linkages in Uttar Pradesh, **Working Paper, GIDS**, No.190. This is a joint working along with A.K. Singh and Mohd. Muzammil, 2005.
3. Growth, Instability and Environmental Degradation in Andhra Pradesh Agriculture, **Working Paper, GIDS**, No. 186, 2003.

**(f) Book Reviewed**

1. “The Great Divide in India” published for the book entitled “The Demographic and Development Divide in India: A District Level Analysis by Sanjay K Mohanty, Udaya S. Mishra and Rajesh K. Chauhan (eds.), Singapore: Springer, 2019 in **Migration and Development**.
2. The book entitled “**Scarcity, Entitlements and the Economics of Water in Developing Countries**”, by P.B. Anand,Edward Elgar, UK, 2007 has been reviewed and published in the **Indian Journal of Human Development**,Vol.2, No. 2, July-December, 2008.
3. The book entitled “**Managing Water Resources: Policies, Institutions and Technologies**”, in V.Ratna Reddy and S.MahendraDev (eds.), Oxford University Press, New Delhi, 2006 has reviewed and published in the **Indian Journal of Labour Economics**, No. 3, Vol.49, July-September, 2006.

**(B) Projects Completed/Under Progress**

<b>Sl. No</b>	<b>Name of the Projects</b>	<b>Name of the Project Director(s) / Coordinator(s)</b>	<b>Sponsored By</b>	<b>Year of Submission</b>
1	Rural Poverty in Uttar Pradesh: Trend of Wage Rates and Employment of Agricultural Labourers”	Dr. Sanatan Nayak	Giri Institute of Development Studies, Lucknow.	2004
2	Economic Evaluation of Uttar Pradesh Diversified Agriculture Support Project	Prof. A.K. Singh Prof. Yashvir Singh Dr. Sanatan Nayak	UPDASP, Govt. of U.P., Lucknow.	2004
3	Mid-Term Evaluation of Tenth Five Year Plan in Uttar Pradesh	Prof. D.M. Diwakar	State Planning Department, Government of	2005



		Dr. Sanatan Nayak	Uttar Pradesh, Lucknow.	
4	Growth and Human Development Linkages: A study of 'BOMARU' States. The study for UP chapter only.	Prof. A.K. Singh Prof. M. Muzammil Dr. Sanatan Nayak	Indira Gandhi Institute of Development Research, Mumbai	2005
5	Evaluation of Integrated Wasteland Development Programme, Hamirpur III	Dr. Sanatan Nayak	Department of Land Development and Water resources Ministry of Rural Development, New Delhi	2006
6	The Impact and Effectiveness of Training and Capacity Building undertaken under The UP Sodic Land Reclamation Project-II	Dr. Sanatan Nayak Prof. A. K. Singh Dr. G. S. Mehta	Uttar Pradesh BhumiSudhar Nigam, Govt. of UP, Lucknow.	2007
7	Socio-Economic Impact Assessment of Some Sodicaffected Villages in Uttar Pradesh	Dr. Sanatan Nayak	Indian Council of Social Science Research, New Delhi	2009
8	Base Line Survey in the Minority Concentrated Districts in UP: A Case of Shrawasti District	Dr. Sanatan Nayak	Ministry of Minority Affairs, Government of India.	2009
9	Pricing and Health Cost Measurement in Urban Drinking Water: A study of Slum and Non Slum Areas in Lucknow, Uttar Pradesh	Prof. Sanatan Nayak	Indian Council of Social Science Research, New Delhi	April, 2019

### (C) Guiding PDF/Ph.D./ M.Phil Scholars

#### (a) PDF Students

##### Submitted

1. PDF topic entitled "Inequities and Health Costs Measurement in Urban Drinking water and Sanitation: A Case Study of Lucknow City", by Rashmi Tiwari has submitted to BBAU in April, 2023.

## **(b) Ph.D Students**

### **Awarded**

1. Ph. D topic entitled “Economic Development and CO2 Emissions: A Household Level Study of Lucknow District in Uttar Pradesh” by Ekta Srivastava awarded in March, 2022.
2. Ph. D topic entitled “Displacement Due to Development of Projects: A Case Study of Lucknow District in Uttar Pradesh” by Alka Singh awarded in February, 2022.
3. Ph. D topic entitled “Poverty and Indoor Air Pollution: A Case Study of Women in Rural Bihar”, by Ravindra Shah was awarded in September, 2020.
4. Ph. D topic entitled “Groundwater Sustainability: A Common Pool Resource Approach Towards its Management”, by Pragya Sharma was awarded in August, 2020.
5. Ph. D topic entitled “Impact of Air Pollution on Urban Livelihood: A Study of Lucknow City in Uttar Pradesh”, by VandanaAhirwar was awarded in September, 2019.
6. Ph. D topic entitled “An Economic Analysis of Climate Change Effects on Agriculture Productivity: A Case Study on Climate Vulnerability of Farmers in Bundelkhand Region of Uttar Pradesh”, by SurendraSingh, was awarded in September, 2018.
7. Ph. D topic entitled “Gender Inequality in Agriculture Sector in Uttar Pradesh”, by Sivani Tiwari, was awarded in 2016.
8. Ph. D topic entitled “An Economic Analysis of Environmental Externalities: A Study on Jajmau Leather Industrial Area of Kanpur, Uttar Pradesh”, by Shivani Singh, was awarded in 2016.
9. Ph.D. topic entitled “Water Sector in UP: An Economic Analysis of Drinking Water and Sanitation” by Rashmi Tiwari was awarded in 2014.

**(c) M.Phil Students**

**Awarded**

1. M.Phil topic entitled “Water Degradation and Impact on Agricultural Productivity: A Case Study of Maharajganj District Uttar Pradesh”, by Nathoo Bharati was awarded in March, 2022.
2. M.Phil topic entitled “The Economic Assessment of Swachh Bharat Abhiyan (Gramin) in Uttar Pradesh: A Case Study of Auraiya District” by Ashween Kumar was awarded in January, 2021.
3. M.Phil topic entitled “Environmental Impacts of Industrialization: A Case Study Alloy Industry in Balasore Districts” by Subrata Kumar Mallick was awarded in February, 2017.
4. M.Phil topic entitled “River Degradation and its Impact on Livelihood and Health: A Case Study of River Gomti, Lucknow” by Soma Samant was awarded in December, 2015.