



Aditi Mahavidyalaya

Faculty Details



Title	Dr.	First Name	Punyatoya	Last Name	Patra	Photograph
Designation		Professor				
Department		Geography				
Address		272, Bagwan Apartment, Sector-28, Rohini, Delhi110042				
Phone number		9811715772				
Email		punyatoyapatra@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
B.A.(H) in Geography		Ravenshaw College, Utkal University			1987	
M.A. in Applied Geography		Ravenshaw College, Utkal University			1989	
M.Phil.		Department of Geography, University of Delhi			1994	
Ph. D.		Department of Geography, University of Delhi			2005	
Career Profile						
Lecturer- Aditi Mahavidyalaya, University of Delhi; 1998-2003 Senior Lecturer, Aditi Mahavidyalaya, University of Delhi; 2003-2007 Reader, Aditi Mahavidyalaya, University of Delhi; 2007-2010 Associate Professor, Aditi Mahavidyalaya, University of Delhi; 2010 – 2018 Professor, Aditi Mahavidyalaya, University of Delhi; 2018- till date						
Administrative Assignments						
Served as Governing Body Member, Aditi Mahavidyalaya, 2009-10; as Teacher-in-Charge of the Department of Geography of the College during 1999-2006, 2007-10, 2011-12, 2013-14, 2015-16, 2017-19, 2021-22; In charge of Computer Lab during 2009-11; served as Convenor, Examination Committee, Library Committee, Notice Board Committee, Prospectus Committee, Provident Fund Committee, Environmental Committee, Garden Committee, Canteen Committee, B.A. Programme Committee, Notice Board Committee, Co-Convenor, Students' Union Advisory time to time						
Areas of Interest / Specialization						
Natural Resources Management, Environmental and Disaster Studies, Remote Sensing and G. I. S.						
Subjects Taught						
Courses taught include Geomorphology, Statistical Methods in Geography, General Cartography, Remote Sensing , Geographical Information System, Field Technique, Geography of Resources						

Research Guidance

Supervision of awarded Doctoral Thesis - 02
Supervision of ongoing Doctoral Thesis- 01

Publications Profile

Authored Books

- 2006 Land Degradation in Tropical Highlands: A Case Study of Orissa, New Delhi: Rajesh Publications, pp. 215. ISBN- 81-85891-65-6
- 2021 Perspectives in Human Geography, New Delhi: Concept Publishing House, pp. 294 (Co-Author), New Delhi: Concept Publications, ISBN 93-88937-83-X

Edited Books

- 2011 Fringe Dynamism in Delhi Metropolitan City, Delhi: Globe Publication House, pp. 201. ISBN-81-87854-05-9
- 2020 Smart Agriculture: Ancient Wisdom and Modern Technology, Rawat Publishing House, Delhi, pp 255 (Co-Editor), ISBN 978-81-316-1137-1

Research Papers in Edited Books

- 2006 “Spatial pattern of Land Degradation in the Northern Highlands of Orissa”, in S.C. Kalwar et al. (eds.) *Geomorphology and Environmental Sustainability*, New Delhi: Concept, 72- 81. ISBN-1-8069-028-8
- 2007 “Management of Common Lands in Sundargarh District, Orissa”, in B.Thakur et al. (eds) *City, Society and Planning, Vol. III: Planning*, New Delhi: Concept, 418-441. ISBN-10: 81-8069-461-5
- 2008 “A Study of Biophysical Characteristics of Lands in the Mahanadi Delta”, in B.Thakur (ed) *Perspective of Resources Management in Developing Countries, Vol. 4: Land Appraisal and Development*, Delhi: Concept, 158-195. ISBN-10:81-8069-036-9
- 2009 “Application of Geomatics for Identification and Management of Wastelands”, in S.S. Verma et al.(eds) *Application of Geomatics in Natural Resources Appraisal and Management*, Department of Geography, Gorakhpur University, Gorakhpur, 229-240.
- 2009 “Application of Remote Sensing and GIS in Relief and Slope Analysis”, in S.S. Verma et al.(eds) *Application of Geomatics in Natural Resources Appraisal and Management*, Department of Geography, Gorakhpur University, Gorakhpur, 267-274.

- 2015 “Joint Forest Management in India : Problems and Prospects” in A. Datta et al.(eds) Spatial Diversity and Dynamics in Resources and Urban development, Vol.1: Regional Resources, Springer. ISBN-978-94-017-9770-2.
- 2015 “Land Susceptibility to Degradation in the Kendujhar Plateau, Odisha” in V. R. Sharma (ed.), Contemporary Environmental Issues: Vulnerability and Resilience, Delhi: www.du.ac.in Page 3 Research India Press, ISBN-978-93-5171-035-6 (co-author)
- 2016 “Prevention and Management of Forest Fires in the Himachal Himalaya”, in B. Thakur, H.S. Sharma, S. Misra, S.Chattopadhyaya and S. Singh (eds) *Regional Development: Theory and Practice, Professor R.P. Misra Felicitation Volume*, Vol. 2: Measuring Development, ISBN: 978-93-512-2202-3, New Delhi: Concept Publishing Company, 134-147. (co-author)
- 2016 “Identification, Estimation and Management of Wastelands Using Remote Sensing and GIS”, in N. Tyagi and N. K. Rana (eds) Application of Geomatics in Natural Resources Appraisal and Management, Delhi : R. K. Books . ISBN-978-93-82847-45-8
- 2016 “Models in Relief and Slope Analysis”, in N. Tyagi and N. K. Rana (eds) Application of Geomatics in Natural Resources Appraisal and Management, Delhi : R. K. Books . ISBN-978-93-82847-45-8
- 2017 Analysis of Water Supply and Demand in Future Smart City of India: A Case Study of Bhubaneshwar City in V. S. Negi, B.W. Pandey and P. Kumaria (eds.) Whither Sustainable Development Studies in Planning and Maqnagement of Land and Water resources, New Delhi: Research India Press, ISBN : 978-93-517-1-096-7 (co-author)
- 2020 “Analysing the Relationship Between Yield of Rice and Fertiliser Consumption for Food Security in Odisha, in P.Patra, R. Devi and G. Sikka (eds.) Smart Agriculture: Ancient Wisdom and Modern Technology, Rawat Publishing House, Delhi. ISBN 978-81-316-1137-1. 164-172 (Co-Authors)
- 2021 Land Degradation and Agricultural Sustainability in Kendujhar District, Odisha in B. Thakur et al.(eds.), Resource Management, Sustainable Development and Governance, Sustainable Development Goals Series, Springer https://doi.org/10.1007/978-3-030-85839-1_22(co-author)

Research Papers in Journals

- 2008 “Management of Acidity and Alkalinity of Soils in the Northern Highlands of Orissa”, Eastern Geographer, XIV: 67-72. ISSN-10: 81-8069-461-5
- 2012 “Forest Fires in the Kendujhar District, Orissa”, Eastern Geographer, XVIII: 1: 97-102. ISSN-10: 81-8069-461-5

- 2014 “Joint Forest Management in Odisha: Emerging Issues”, International Journal of Social science Tomorrow, 3(3): 1-6. ISSN-2277-6168
- 2014 “Eco Development in Similpal Biosphere Reserve: Issues and Challenges”, Research Directions, 2(5): 1-8. ISSN-2321-5488
- 2015 “Assessment, Prevention and Mitigation of Landslide Hazard in Lesser Himalaya of Himachal Pradesh”, Environment and Socioeconomic Studies, Vol – 3 (3), pp: 1-11 (coAuthor)
https://www.researchgate.net/publication/307710808_Assessment_prevention_and_mitigation_of_landslide_hazard_in_the_Lesser_Himalaya_of_Himachal_Pradesh
- 2015 “Spatial Pattern of Forest Density in the Kendujhar District of Odisha”, Uttar Bharat Bhoogol Patrika, Vol – 45 (1), pp: 61-66. ISSN- 0042-1618
- 2015 “Landslide Hazard Assessment and Mitigation Strategy in the Himachal Pradesh”, Transactions, Vol – 37 (2), pp: 234-243 (co-Author)
https://www.researchgate.net/publication/292162715_Landslide_hazard_assessment_and_mitigation_strategy_in_the_Himachal_Pradesh
- 2017 “Assessment of Land Resources for Optimal Use and Sustainability in the Kendujhar District, Odisha”, Uttar Bharat Bhoogol Patrika, Vol – 47 (1), pp: 23-32. (co-author). ISSN- 0042-1618
- 2017 “Geographical Investigations Related to Landslides in the Uttarakhand Himalaya”, Uttar Bharat Bhoogol Patrika, Vol – 47 (2), pp: 1-9 (co-author). ISSN- 0042-1618
- 2017 “Water Management in Disaster Prone Region: A Study of Rajasthan”, Uttar Bharat Bhoogol Patrika, Vol – 47 (2), pp: 51-63 (co-author). 0042-161. ISSN- 0042-1618
- 2018 “Measuring Resilience of Land against Degradation from a Farmer’s Perspective Approach in Kendujhar Plateau, Odisha (India)”, *European Journal of Geography*, Vol. 9 (1) (co-author). ISSN- 1792-1341.
<https://eurogeojournal.eu/index.php/egj/article/view/105>

Publication of Text Book Materials / Articles

- Remote Sensing and GIS (www.du.ac.in/geography/ags_in_2008).
- Dynamic World and Plate Tectonic Theory (2007), Geo Vision, Department of Geography, Swami Shradhanand College, University of Delhi, pp. 38-41
- Understanding Floods as Physical Processes (2006), Vasundhara, Magazine Published by Geographical Society, Dyal Singh College, University of Delhi, pp 1-2.

- Is Forest Fire a Disaster?, Dharitri Newsletter (2011), Dharitri Newsletter, Department of Geography, Aditi Mahavidyalaya, University of Delhi, pp. 1-2
- Biodiesel- A Green, Clean Fuel (2012), Dharitri, Department of Geography, Aditi Mahavidyalaya, University of Delhi, p. 21
- House Sparrow: From Ubiquitous to Rare (2014), Parivartan Media, No.9, 36-37
- Twenty Two Sewage Drains- Tributaries of Yamuna River (2015)
- Agro-Based Industries: Cotton, Sugar and Food Processing for B.SC. Geography students. IGNOU Study Materials <http://egyankosh.ac.in/handle/123456789/86464>

Conference Organization/ Presentations (in the last three years)

organised as convenor, a three day online training programme on the theme "Man-made disasters and women as responders since Independence" on 23rd Feb to 25th Feb 2022 in association with National Institute of Disaster Management.

Research Projects (Major Grants/Research Collaboration)

2007-10----Degradation of Forest Lands in the Keonjhar District, Orissa Using Remote Sensing and G.I.S. Technology (PI in UGC Major Research Project)

April 2002- Sept 2004 ----Preparation of GIS Database of seven priority states(Assam, Meghalaya, Madhya Pradesh, Nagaland, Jammu & Kashmir, Uttar Pradesh and Uttarakhand) for the Planning of power resource in Non- electrified Villages (worked as GIS consultant with Cosmic Technographic, Faridabad for GOI Project)

Oct 2009- Aug 2010-----Reconnaissance Survey for City Gas Distribution for City of Riyadh (Worked as GIS consultant with Geo Maps, Faridabad and CRISIL Risk & Infrastructure Solutions Private Ltd.)

Feb 2010 to June 2011-----Gravity & Magnetic Survey, ONGC Block- PR-ONN-2005/1, Cauvery Basin, & Block- CB-ONN 2004/2, Combay Basin, ONGC (Woked as GIS consultant with Parson Overseas Pvt. Ltd and Sponsored by ONGC, Government of India)

Nov 2011 to March 2012----Gravity Magnetic Survey for PIPRA, PICHOR & BHAUNTI. In Shivpuri, Madhya Pradesh (Worked as GIS consultant with Parsan Overseaspvt. Ltd. And Sponsored by Atomic Mineral Division, Government of India)

Awards and Distinctions

- 1983-87 Merit Scholarship, Utkal University
- 1995-9 Junior Research Fellowship, University Grants Commission (UGC)
- 2006, 07, 08 Associate Fellowship, Indian Institute of Advanced Study, Shimla (for one month each year) 2011 Best Lecturer Award, Government of Delhi, Delhi

Association With Professional Bodies

- Life Member, Eastern Geographical Society, Utkal University, Bhubaneswar
- Life Member, The Geographical Society of India, Kolkata
- Life Member, National Association of Geographers, India, Delhi
- Life Member, Association for Geographical Studies, University of Delhi, Delhi
- Life Member, Institute of Indian Geographers, University of Poona, Pune.
- Life Member, Indian Institute of Geomorphologists, University of Allahabad, Allahabad.
- Life Member, Orissa Environmental Society (OES), Bhubaneswar
- Life Member, Indian Society of Remote Sensing (ISRS), Dehradun

Other Activities

Motivating, guiding farmers for practicing non-chemical agriculture in fringe areas of Delhi