

Dr. Debnath Palit



Designation

Principal,
West Bengal Senior Education Service (WBSES)
Government of West Bengal

Qualification

M.Sc. (Botany), Ph.D. (Botany)
(The University of Burdwan)

Experience

Teaching Experience

Undergraduate Level: 22 Years
Postgraduate Level: 16 Years

Research Experience

26+ Years

Institutions Served

- **Krishnagar Government College**
Principal, West Bengal Senior Educational Service (WBSES)
(Sept 12, 2025 to till date)
- **Durgapur Government College**
 - *Principal, West Bengal Senior Educational Service (WBSES)*
(Feb 09, 2021 to Sept 11, 2025)
 - *Associate Professor & Head, Department of Botany*
(Nov 17, 2016 to Feb 09, 2021)
 - *Officer-in-Charge*
(Oct 19, 2011 to Aug,20, 2013)
 - *Associate Professor/Assistant Professor*
(Dec 03, 2008 to Aug 01, 2016)
- **Dr. APJ Abdul Kalam Government College**
Associate Professor of Botany
(Aug 3, 2016 to Nov 16, 2016)
- **Bidhannagar Government College**
Lecturer (Sr. Scale), Botany
(Aug 02, 2007 to Dec 02, 2008)
- **Darjeeling Government College**
Lecturer, Botany
(April 01, 2002 to July 31, 2007)

Contact

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Principal,
Krishnagar Government College
P.O-Krishnagar,
Dist- Nadia, Pin-741101

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Research Awards/Recognition

- Fellow of East Himalayan Society for Spermatophyte Taxonomy
- Recipient of "**Scientist Award**" in the International Scientist Award on Engineering Science and Medicine, March 29-30, 2022 held in Pondicherry India

Research Interest

Ecology of Wetlands, Pit-lakes and Forest, Phyto- and Microbial remediation of coal mined generated wastelands, Air Pollution Control, Environmental Impact Assessment

Research Publications and Presentations

Research Publications in International and National Journals: 113

Books Published: 8; Editor of Book: 01 (*John Wiley & Sons. Scrivener Publishing*)

Book Chapters Published: 48 (Publishers; Wiley, Elsevier, Springer, Taylor and Francis etc)

Conference Proceedings: 9

Invited Lecture/Paper Presentations: 19

Research Guidance

- Guidance of **DST Inspire Fellows** for PhD: 2 (*Santanu Gupta and Payel Mazumdar*)
- PhD (Degree Awarded): 13 (*under the affiliation of The University of Burdwan*)
- Recognized as the co-supervisor of Doctoral Students in the Department of Botany, University of North Bengal, West Bengal
- PhD (Presently Registered/Working for Enrollment): 4
- M.Sc. Dissertations: 35 (*The University of Burdwan, North Bengal University, Kazi Nazrul University*)

Research Projects (Sponsored)

1. **Dr. Debnath Palit** (PI), "Eco-friendly technology for restoration mined wastelands in Raniganj Colliery areas", UGC Minor Research Project, Total Grant: Rs. 93500/- ; Tenure: 2009-2011.
2. **Dr. Debnath Palit** (PI), "Ecological and limnological investigations on wetlands of Bankura District: implications for promoting sustainable management and wise use of wetlands'. UGC Minor Research Project, Total Grant: Rs. 95000/- ; Tenure: 2013-2015
3. **Dr. Debnath Palit** (Co-PI), " Integrated Project on Conservation, Demonstration and Training on sustainable use of Medicinal Plants for up gradation of Livelihood of the poor families of backward classes in Bankati Gram Panchayat area, Burdwan District, West Bengal", Department of Science & Technology, Government of West Bengal, Implemented at The University of Burdwan; Total grant: Rs. 21,00,000/- Tenure: 2010-2014.
4. **Dr. Debnath Palit** (PI), "Ecological appraisal of pit lakes of Raniganj coal field (RCF), West Bengal, India: implications for conservation and sustainable use", Department of Science & Technology, Government of West Bengal, Total Grant: Rs. 29,17,533/- Tenure: 2014-2017.
5. **Dr. Debnath Palit** (PI), " Eco-restoration of wetlands in Birbhum district, West Bengal for sustainable use", Department of Environment, Government of West Bengal, Total Grant: Rs. 4,64,100/-; Tenure: 2010-2013.

GOOGLE SCHOLAR ID:

https://scholar.google.com/citations?hl=en&user=425BRoIAAAAJ&view_op=list_works&authuser=1&gmla=AH8HC4yC6Nvg7yDpkoBjGmo6UV8AVh7sSiEoz7r1RgGrKlBeGNr8OwIcKdrAH7m33udCu3eQSIItl-piiX8n2d_qV

SCOPUS ID:

<https://www.scopus.com/authid/detail.uri?authorId=22136399200>

Research Gate:

https://www.researchgate.net/profile/Debnath_Palit2?ev=hdr_xprf

Web of Science:

<https://www.webofscience.com/wos/author/record/AAJ-3776-2021>

AD SCIENTIFIC INDEX H INDEX RANKING 2026; Country Rank: 25585; World Rank: 716452 (As on May 2026)

AD SCIENTIFIC INDEX i10 PRODUCTIVITY INDEX RANKING 2026; Country Rank: 19506; World Rank: 553042 (As on May 2026)

Guidance of PhD Scholars (Degree Awarded)

1. Kajori Mondal (*Awarded: 2026; Kazi Nazrul University*) Impact assessment of water and soil for sponge iron industries in Barjora Industrial Area, West Bengal
2. Chittaranjan Naskar (*Awarded: 2026; Kazi Nazrul University*) Potentiality of Dragon fruits (*Hylocereous lemairei* (Hook.) Britton and Rose) as an alternative cultivation in Southern parts of Sunderban, West Bengal, India
3. Anamika Pandey (*Awarded: 2026; Kazi Nazrul University*) Spatio temporal variability of air pollutants on selected tree species: implications for assessment of CO₂ mitigation potential
4. Nazma Khatun (*Awarded: 2026; Kazi Nazrul University*) Phytoplankton Diversity and its relationship with environmental factors in pit-lake ecosystem
5. Animesh Karmakar (*Awarded: 2026; Kazi Nazrul University*) Mass cultivation of white sandalwoods (*Santalum album* L) for sustainable yield in Rarh Bengal, India
6. Subhra Bandopadhyay (*Awarded: 2026; Kazi Nazrul University*) Non-timber forest products and their utilization for sustainable livelihood development in some parts of Birbhum District, West Bengal, India
7. Priyaranjan Mondal (*Awarded: 2026; Kazi Nazrul University*) Macrophytes composition and their ecological roles in some selected pit lakes of Raniganj Coal Field Area, West Bengal, India
8. Santanu Gupta (*Awarded: 2016, The University of Burdwan*) Assessment of Ecological and Socioeconomic Valuation of Wetlands in Birbhum District, West Bengal, India for conservation and sustainable use. (DST Inspire Fellow)
9. Aparajita Mukherjee (*Awarded: 2016, The University of Burdwan*) Studies on the ecological and socio- economic services of wetlands to the rural people of Bankura district, West Bengal, India,
10. Debalina Kar (*Awarded: 2016, The University of Burdwan*) Phytoremediation of some selected wastelands in colliery belt of Raniganj, West Bengal, India,
11. Shiboram Banerjee (*Awarded: 2020, The University of Burdwan*) Air Quality Monitoring Using Available Plant Species of Durgapur Industrial Township, West Bengal,
12. Payel Majumder (*Awarded: 2020, The University of Burdwan*) Studies in microbial diversity through time of coal mine generated wastelands of West Bengal in understanding their role in soil reclamation. (DST Inspire Fellow)
13. Babli Garai (*Awarded: 2020, The University of Burdwan*) Succession of Plant Diversity based on selected pit lakes of Raniganj Coal fields, India,

Administrative Experience

- **Principal, Krishnagar Government College** (Sept 12, 2025 to till date)
- **Principal, Durgapur Government College** (February 9, 2021 to Sept 11, 2025)
 - ☞ Institution received DBT STAR COLLEGE SCHEME in 2022 from the Department of Biotechnology, Government of India and was recognized among top 4 colleges of India for remarkable contribution under the DBT STAR COLLEGE SCHEME. Principal invited for Panel Discussion and Presentation in the 5th Annual Review Meeting of the Task Force from July 1-3, 2025
 - ☞ Institution hosted the Regional Science and Technology Congress 2024 in association with Department of Science and Technology and Biotechnology, Government of West Bengal, January 09-10, 2024
 - ☞ Institution received appreciation certificate 2023-24 from Innovation Cell, Ministry of Education, Government of India for activities to promote Innovation and Start up under the Institution's Innovation Council
- **Officer-in-Charge, Durgapur Government College** (October 19, 2011 to August, 20, 2013)
- **Centre -in-Charge, Netaji Subhas Open University Study centre** (PG Department of Zoology) at Durgapur Government College (October 19, 2011 to August, 20, 2013)
- **Centre -in-Charge, Netaji Subhas Open University Study centre** (Bachelor Degree Programme and Post Graduate Programme) at Durgapur Government College (July 2012 to August 2013)
- **Coordinator, IQAC, Durgapur Government College (2020-21) and member of NAAC Committee and IQAC, Durgapur Government College for 2nd Cycle (Grade A)**
- **Coordinator, UGC- Career Oriented Programme (COP)** in Corporate Communication and Communicative English, (October 19, 2011 to August, 20, 2013)
- **Head, Department of Conservation Biology**, Durgapur Government College (November 6, 2009 to December 03, 2014)
- **Head, Department of Botany**, Durgapur Government College (August, 2017 to February 2021)

Membership in State/National level bodies

- *Life Membership of International Society of Environmental Botanists (CSIR-National Botanical Research Institute), Lucknow, India*
- *Life Membership of International Academy of Science and Research, Kolkata, India*
- *Life Membership of Indian Society of Chemists and Biologists, India*
- *Life Member, National Environmental Science Academy, New Delhi, India*
- *Life Member, Botanical Society of Bengal*
- *Member of Review committee in respect of rapid Socio-Economic and environmental impact studies by National Water Development Agency (Ministry of Water Resources, Government of India) for proposed Farakka-Sundarban Link Project (2008)*
- *Member of Review committee in respect of rapid Socio-Economic and environmental impact studies by National Water Development Agency (Ministry of Water Resources, Government of India) for proposed Ganga –Damodar - Subarnarekha Link Project. (2009)*
- *Natural Member, East Himalayan Society for Spermatophyte Taxonomy, Department of Botany, North Bengal University, Siliguri, Darjeeling.*
- *Life Member, The Zoological Association of Burdwan, Sarat Pally, Burdwan*
- *Member of Council for the Undergraduate Studies in Science, technology, Home Science and Vocational Studies of Kazi Nazrul University, Asansol, West Bengal vide letter dated 26-04-2021*
- *Chairperson, Under Graduate Board of Studies in Botany, Kazi Nazrul University, Asansol, West Bengal (2020-2024)*
- *Member, Governing Body and Finance Committee of Michael Madhusudan Memorial College, Durgapur, University Nominee from Kazi Nazrul University, Asansol (2017-2022)*
- *Course Convener of Botany and Chief Coordinator of Botany, Kazi Nazrul University, Asansol (2017-2021)*

Research Publications

1. Nazma Khatun and **Debnath Palit** (2026) Evaluation of water quality and physicochemical parameters of pitlakes in the Raniganj coalfield for potential reuse in domestic, irrigation, and aquatic life support, *Journal of Research in Environmental and Earth Sciences*, Volume 12, page-20-31.
2. Srikanta Guria, Sakim Biswas, Sayani Kar and **Debnath Palit** (2026) Study of Macrophages in Common Carp (*Cyprinus Carpio*) With Special Emphasis on Gill and Swim Bladder: Biomarkers for Risk Assessment of Pollution, *World Scientific News*, WSN 214 (2016) , page 1-10
3. Animesh Karmakar, **Debnath Palit**, Jagatpati Tah (2026); Study of International Status and Distribution Pattern of White Sandalwood *Santalum Album*, *International Journal of Innovative Research in Technology*, Volume 12, Page-4488-4492
4. Sandip Kumar Dutta, Subhra Bandhopadhyay, Ankush Pal, **Debnath Palit** (2026); An overview of domesticated vegetation for survival of endangered plants beyond phyto-geographical regions of distribution, *International Journal of Innovative Research in Technology*, Volume 12, Page-3130-3135
5. Sandip Kumar Dutta, Subhra Bandhopadhyay, Ankush Pal, **Debnath Palit** (2026); Role of Administrative Pursuit for Conservation of Forests, *International Journal of Creative Research Thoughts*, Volume 14, Issue 3, Page-d628-d634.
6. Srikanta Guria, Sakim Biswas, Sayani Kar, Riya Mallick, **Debnath Palit** and Sudakshina Ghosh (2026) Histopathological and Cellular Alterations in Digestive Glands/Tubules and Foot of *Pila* sp. to Speculate Environmental Pollution, *International Journal of Pharmacy and Biological Sciences*, 16(1): 25-32
7. Kajori Mondal and **Debnath Palit** (2026) Assessment of Sponge Iron Industries' Impact on Water Bodies and Total Hardness Level in Barjora Industrial Area, *International Journal of Water Research*, 8(1): 212.
8. Srikanta Guria, Sakim Biswas, Sayani Kar, Riya Mallick and **Debnath Palit** (2026) Study of Cellular Markers in Fresh Water Mollusc, *Bellamya bengalensis*, *International Journal of Environmental Sciences*, 15(1) (2026) 9-14
9. Chittaranjan Naskar and **Debnath Palit** (2026), Impact of soil mixtures on vegetative and reproductive growth of dragon fruits, *International Journal of Horticulture and Food Science*, 8(1), 18-24
10. Anamika Pandey and **Debnath Palit** (2026) Comparative analysis of air pollution and Air Pollution Tolerance Index (APTI) of the tree species in Durgapur, *International Journal of Applied Research*, 12 (1), 130-137
11. Trinankur Bhattacharjee and **Debnath Palit** (2025), Vegetation Structure and species diversity in Dhandardihi 1 and Dhandardihi 2 wasteland of Kajora mining area West Bengal, India, *Annals of Plant and Soil Research* 27(1): 88-95 (2025)
12. Debasis Mandal and **Debnath Palit** (2025) Eco-floristic Survey on Aquatic Macrophytes from Three Mouzas of East Kolkata Wetland, West Bengal, India, *International Journal of Plant and Environment*, Volume 11 Issue 2, p 247-258
13. Kajori Mondal and **Debnath Palit** (2025) Impacts of Sponge iron industries on the socioeconomic fabric of Asuriya, Sahebdihi, and Bisanpur villages in Bankura, West Bengal, India: A Comparative study, *Indian J. Applied & Pure Bio.* Vol. 40(2), 837-849 (2025).
14. Nazma Khatun and **Debnath Palit** (2025), Assessment of Phytoplankton Diversity and its Role in Biomonitoring Water Quality of Pitlakes in the Raniganj Coalfield, India, *Environmental Science Archives*, Volume IV, Issue 1, 247-256
15. Subhra Bandyopadhyay and **Debnath Palit** (2024), Value addition and advertising of non-timber forest products for promoting livelihood of forest-fringe tribes: A case study of Sonajhuri Haat under Bolpur-Sriniketan Block in Birbhum District, West Bengal, India, *International Journal of Plant and Environment*, 10(1), 76-84
16. Subhra Bandyopadhyay and **Debnath Palit** (2024), Wild Plants used as Cure to Diseases by the People of Tribal Communities in the District of Birbhum, West Bengal, India, *Environment and Ecology*, 42(3A), 1277-1282
17. Chittaranjan Naskar and **Debnath Palit** (2024), Dragon fruits and strawberries in the same field, a new paradigm in the farming of Sundarban, West Bengal, India, *Journal of Advanced Zoology*, Vol 45, Issue 2, p 471
18. Anamika Pandey and **Debnath Palit** (2024) Air pollution in Durgapur, West Bengal : an assessment of the trees' potential to sequester carbon dioxide, *Indian Journal of Applied and Pure Biology*, Vol.39(2),1207-1218
19. Anamika Pandey and **Debnath Palit** (2024) PM 2.5 pollution : evolution and seasonal variation in Durgapur, West Bengal and its impact on plants, *Indian Journal of Applied and Pure Biology*, Vol. 39(2), Page No. 1089-1099
20. Animesh Karmakar, **Debnath Palit**, Jagatpati Tah (2024) Analysis of Sandalwood (*Santalum album* L.) Oil: A Brief Report from West Bengal, *Indian Journal of Applied and Pure Biology*, Vol. 39(2), Page No. 1132-1138
21. Priyaranjan Mondal, **Debnath Palit** (2024), Assessment of sediment quality in pit lakes of Raniganj Coal fields, West Bengal, India, *Annals of Plant and Soil Research*, 26(4): 656-661
22. Priyaranjan Mondal, Arnab Banerjee, **Debnath Palit** (2023) Water quality of selected Pitlakes of Raniganj coal fields, West Bengal, India, *Indian Journal of Applied and Pure Biology*, Vol 38(3), Page No. 1563-1574
23. Saikat Mondal, **Debnath Palit**, Niladri Hazra*, Spatial pattern analysis of zooplankton and surface water of pit lakes (Raniganj coal field, India), *Water Science*, Pages 98-116 | Published online: 12 Jun 2023 <https://doi.org/10.1080/23570008.2023.2221069>
24. Saikat Mondal, **Debnath Palit**, Ecological assessment of pit lakes in Raniganj, India: Application of different indices and multivariate statistics, *Water Science*, Pages 57-70 | Published online: 23 May 2023, <https://doi.org/10.1080/23570008.2023.2215573>
25. Barsali Banerjee, **Nivedita Acharjee***, **Debnath Palit** (2023) Revealing the cyclization selectivity in intramolecular

- [3+2] cycloaddition reactions of allenic nitrones from the molecular electron density theory perspective, *Structural Chemistry (Springer)*, (IF = 2.2) <https://doi.org/10.1007/s11224-023-02175-3>
26. Asmita Mondal, **Nivedita Acharjee***, Debnath Palit (2023) Unveiling [3+2] cycloaddition reactions of pyridinium bis(methoxycarbonyl)methylides and pyridinium dicyanomethylides with cyclooctyne for indolizine synthesis from the molecular electron density theory perspective, *Structural Chemistry (Springer)*, (IF = 2.2) <https://doi.org/10.1007/s11224-023-02193-1>
 27. S. Banerjee, A. Banerjee, and **Debnath Palit** (2022). Morphological and biochemical study of plant species –A quick tool for assessing the impact of air pollution *Journal of Cleaner Production*. (Elsevier), Vol. 339, 130647. **Impact factor: 11.072** <https://doi.org/10.1016/j.jclepro.2022.130647>
 28. Saikat Mondal, **Debnath Palit**, Niladri Hazra (2022) Study on composition and spatio-temporal variation of zooplankton community in coal mine generated pit lakes, West Bengal, India. *Tropical Ecology (Springer)* **Impact factor: 1.333** <https://doi.org/10.1007/s42965-022-00274-6>
 29. Chittaranjan Naskar and **Debnath Palit** (2022), Eco-Friendly method of Strawberry Cultivation At Rooftop Garden, *IJFANS International Journal of Food and Nutritional Sciences*, Volume 11, Special Issue 7, 19299
 30. S. Banerjee, A. Banerjee, and **Debnath Palit** (2021). Ecosystem services and impact of industrial pollution on urban health: evidence from Durgapur, West Bengal, India. *Environ Monit Assess (Springer)* 193, 744 (2021). <https://doi.org/10.1007/s10661-021-09526-9> **Impact factor: 3.00**
 31. S. Banerjee, **Debnath Palit** and A. Banerjee (2021) Variation of tree biochemical and physiological characters under different air pollution stresses. *Environmental science and Pollution research*. <https://doi.org/10.1007/s11356-020-11674-3>
 32. Saikat Mondal, Pinaki Chattopadhyay, Arnab Banerjee, **Debnath Palit*** (2021) Ecological assessment of tree communities and pedological characteristics of coal mined generated wastelands of Raniganj Coal Field Area, West Bengal, India. *Vegetos (Springer)*, Volume 35, pages 367–380, <https://doi.org/10.1007/s42535-021-00305-y>.
 33. Payel Majumder Ghosh , Debnath Palit (2021) Responses of microbial population using metagenomics of selective coal mine generated wastelands in ranigaunj coalfield, *Pollution Research*, 40(4):1403-1409.
 34. Saikat Mondal, **Debnath Palit***, Niladri Hazra (2021) Rotifer Diversity in Coal Mine Generated Pit Lakes of Raniganj Coal Field Area, West Bengal, India, *LIMNOFISH-Journal of Limnology and Freshwater Fisheries Research* 7(2): 115-127.
 35. Saikat Mondal, **Debnath Palit***, Pinaki Chattopadhyay (2020), Impact of Mining on Tree Diversity of the Coal Mining Forest Area at Raniganj Coal Field Area of West Bengal, India. *Ecology, Environment and Conservation*, 26 (Spl. Issue) S66-S72.
 36. Saikat Mondal, **Debnath Palit***, Pinaki Chattopadhyay (2020), Vegetation Analysis in Chora and Joyalbhanga Forest Area of Raniganj Coal Field, West Bengal, India. *Indian Journal of Ecology* , 47(3): 831-841.
 37. Saikat Mondal, **Debnath Palit*** (2019), Evaluation of water quality using water quality index of pit lakes, Raniganj coal field area, West Bengal, India. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*, Volume No. 5(3), Page No. 532
 38. Saikat Mondal, **Debnath Palit*** (2019), Inventory of Plant Species, Phytosociology and Species Diversity of Gunjan Ecological Park Pit Lake, West Bengal, India. *International Journal of Scientific Research and Reviews*, 8 (2), 1990-2006.
 39. Saikat Mondal , **Debnath Palit***, Pinaki Chattopadhyay (2019), Species diversity and vegetation structure of coal mine generated wasteland of Raniganj Coal Field, West Bengal, India. *International journal of current research and review*, Vol11, Issue 13, Page-13-25
 40. Siboram Banerjee, Arnab Banerjee, **Debnath Palit*** (2018), Assessment of vegetation under air pollution stress in urban industrial area for green belt development in Durgapur, West Bengal, India. *International Journal of Environmental Science and Technology*, 16, 5857-5870
<https://link.springer.com/article/10.1007/s13762-018-1963-9>
 41. **Debnath Palit***, Saikat Mondal, Pinaki Chattopadhyay (2018), Analysing water quality index of selected pit-lakes of Raniganj Coal Field Area, India. *Environment and Ecology*, 36 (4A): 1167-1175.
 42. **Debnath Palit***, Debalina Kar, Ambarish Mukherjee (2018), Flowering and fruiting responses of the wetland macrophytes in Birbhum district, West Bengal, India. *The Asian Journal of horticulture*, 13(1):8-13.
 43. **Debnath Palit***, Debalina Kar, Ambarish Mukherjee (2017), Developmental perspective of wetlands in Birbhum district, West Bengal, India. *Indian Journal of Applied Research*, 7(6): 484-486.
 44. **Debnath Palit***, Debalina Kar, Sharmila Roy Choudhury, Aparajita Mukherjee (2017), Sediment characterization on pit-lake water body of Raniganj Coal Fields, West Bengal, India. *Indian Journal of Applied Research*, 7(10): 555-557.
 45. **Debnath Palit***, Debalina Kar, Sharmila Roy Choudhury, Aparajita Mukherjee (2017), Water Quality Assessment of Pit-Lakes in Raniganj Coalfields Area, West Bengal, India. *International Journal of Current Research and Review*, 9(11): 10-15.
 46. **Debnath Palit***, Debalina Kar, Ambarish Mukherjee (2017), Studies on Macrophyte Diversity in Lalbandh Wetland, Birbhum, West Bengal, India. *International Journal of Interdisciplinary and Multidisciplinary Studies.*, 4(2): 198-203.

47. **Debnath Palit***, Debalina Kar (2017), A Study of physico-chemical characteristics of overburden dump soil in selected coal mining areas of Raniganj coal fields, West Bengal, India. *International Research Journal of Natural and Applied Sciences*, 4(6): 1-12.
48. **Debnath Palit***, Debalina Kar, Ambarish Mukherjee (2017), Studies on Grass Flora in the Wetland of Birbhum District, West Bengal, India. *Journal of Plant Sciences*, 12: 59-67
49. Payel Majumder, **Debnath Palit*** (2017), Isolation, Identification and Characterization of Bacteria of Coal Mine Soil at Sonepur Bazari of Raniganj Coalfield, West Bengal. *International Journal of Applied Environmental Sciences*, 12(6), pp. 1131-1140.
50. **Debnath Palit***, Arnab Banerjee (2016), Traditional uses and conservative lifestyle of lepcha tribe through sustainable bio resource utilization – case studies from Darjeeling and north Sikkim, India. *International Journal of Conservation Science*, 7(3): 735-752.
51. **Debnath Palit***, Aparajita Mukherjee, Debalina Kar, Sharmila Roy Choudhury , Babli Garai, Piyali Kar, P, Santanu Gupta (2016), Determinants of Pitlake Usage in Raniganj Coalfield Region, West Bengal: Implications for Sustainable Use. *International Journal of Innovative Research in Engineering & Management.*, 3(2): 72-79
52. Sanchita Banerjee, Debalina Kar, Arnab Banerjee, **Debnath Palit*** (2016), Studies on limnology and macrophytes in selected water bodies of Durgapur, West Bengal, India. *American Journal of Innovative Research and Applied Sciences*, 2(4): 169-175.
53. Debalina Kar, **Debnath Palit*** (2016), Natural occurrence of plant species on Bankola area of Raniganj Coalfield, West Bengal, India. *International Educational Scientific Research Journal*, 2(6): 37-38.
54. **Debnath Palit***, Debalina Kar , Sharmila Roy Choudhury , Aparajita Mukherjee, Babli Garai, Piyali Kar (2016), Species Composition of Plant Communities in Pitlakes of Raniganj Coal Field, West Bengal, India. *International Journal of Current Research in Biosciences and Plant Biology*, 3(6): 82-86.
55. Debalina Kar, **Debnath Palit*** (2016), Assessment of plant species assemblages with their distribution in an open cast mining area of Raniganj Coalfield, West Bengal, India. *International Journal of Scientific & Engineering Research*, 7(7): 443-452.
56. Siboram Banerjee, **Debnath Palit***, Arnab Banerjee, (2016), Changing Strategies of Biochemical and Physiological Features of Selected Plant Species on Effect of Air Pollution in Eastern Steel City, Durgapur, India. *International Journal of Current Microbiology and Applied Sciences* , 5 (9): 733-741.
57. Minu Mishra, Arnab Banerjee, **Debnath Palit*** (2016), Variation of Nutrient Level in Soil and Leaf Litter of Selected Tree Species: A Case Study. *International Journal of Ecology and Development*, 31(2): 99-111.
58. Payel Majumder, **Debnath Palit*** (2016), Microbial Diversity of Soil in Some Coal Mine Generated Wasteland of Raniganj Coalfield, West Bengal, India. *International Journal of Current Microbiology and Applied Sciences*, 5(2): 637-641.
59. Aparajita Mukherjee, **Debnath Palit***, Santanu Gupta (2015), Rare record on Plaintive Cuckoo (*Cacomantis merulinus*) from a fresh water wetland of Bankura district, West Bengal, India. *Zoosprint*, XXX (3): 19-21.
60. Santanu Gupta, Aparajita Mukherjee, **Debnath Palit*** (2015), Reporting of (Sand?) Martin Riparia (riparia?) From Durgapur Barrage, West Bengal, India. *Zoosprint*, XXX (7):6-9
61. Tripti Bouri **Debnath Palit***,* Ambarish Mukherjee (2015), Livelihood dependency of rural people utilizing non-timber forest product (NTFPs) in a moist deciduous forest zone, West Bengal, India. *International Journal of Advanced Research*, 3(4): 1030-1040.
62. Tripti Bouri **Debnath Palit***,* Ambarish Mukherjee (2014) An investigation of plant communities in Basudha beat of Durgapur forest range, West Bengal, India. *International Journal of Current Microbiology and Applied Sciences* 3 (9): 596-607.
63. **Debnath Palit***,* Arnab Banerjee, (2014), The Diversity and Richness of Vegetation of Gaddikhana Forest Beat in Darjeeling Himalaya, West Bengal, India. *International Journal of Latest Technology in Engineering, Management & Applied Science*, III(X): 106-112.
64. **Debnath Palit***,* Arnab Banerjee, (2014), Inventory of Plant Species, Phytosociology, Species Diversity and Pedological characteristics of Rambhi Beat, Senchal East Zone Forest Range, Darjeeling, West Bengal, India. *Journal of Forest and Environmental Science*, 30(4): 331-341.
65. Santanu Gupta, **Debnath Palit *** (2014), A Contribution to the Fish faunal status in wetlands of Birbhum District, West Bengal, India. *Asian Academic Research Journal of Multidisciplinary*, 1(28): 40-53.
66. Santanu Gupta, **Debnath Palit *** (2014), Biosurveillance of wetlands in Eastern India (Birbhum, West Bengal) for wise use. *International Journal of Science, Environment and Technology*, 3(6): 2136 – 2144.
67. Santanu Gupta, **Debnath Palit ***(2014), Preliminary Assessment of Designated Usages/ Effective Wetland Management Strategies (EWMS) in Wetlands of Birbhum District, West Bengal, India. *Journal of Environmental Science, Computer Science and Engineering & Technology*, 3(4): 1881-1894.
68. Debalina Kar, **Debnath Palit*** (2014), Phyto-Diversity on Selected Coal Mine Areas of Raniganj Coalfields, India. *International Journal of Green and Herbal Chemistry*, 3(1): 049- 055.
69. Santanu Gupta, **Debnath Palit***. (2014), A study on wetlands in Birbhum district, West Bengal, India. *Journal of Applied Sciences in Environmental Sanitation*, 9(2):79-84.
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 43. **Debnath Palit, Ambarish Mukherjee (2007)**, Biosensors: an appraisal of its operation and applications. In. Misra and Juwarkar (eds.) *Environmental Biotechnology*. ISBN: 8131301850-0, pp. 55-82 A P H Publishing Corporation, New Delhi.
 44. **Debnath Palit, Ambarish Mukherjee (2006)**, Resourceful aspects of the waste In: Misra, Kim and Saxena (eds.), *Environmental Issues and Options*. ISBN: 8170354315, pp. 49-75. Daya Publishing House, Delhi,
 45. Ambarish Mukherjee, **Debnath Palit (2002)**, Wetland perspectives- contemplation. In: G. Tripathy and Y.C. Tripathy (ed.), *Bioresource and Environment*. ISBN: 9788180300080, pp .89-107. Campus Books International
 46. Ambarish Mukherjee, **Debnath Palit (2002)**, Biodiversity perspectives –an envision of the scenario. In: G. Tripathy and Y.C. Tripathy (ed.), *Bioresource and Environment*. ISBN: 9788180300080, pp .304-316. Campus Books International.
 47. Ambarish Mukherjee, **Debnath Palit (2002)**, Macrophyte diversity in wetland of Birbhum District, West Bengal. Economic Prospect. In: L.K. Dadhich and A.P.Sharma (eds), *Biodiversity, Strategies of Conservation*. ISBN: 81-76483-15X, pp..245-263. APH Publishing Corporation, New Delhi.

48. Ambarish Mukherjee, **Debnath Palit (2001)**, Eco restoration of Mined Wasteland: An overview. In: A. K. Roy and S. K. Varma (eds), *Wasteland Management and Environment*. ISBN: 81-7233-147-9, pp. 181-188. Scientific Publishers (India)

Conference Proceedings

1. Srikanta Guria, Priti Debnath, and **Debnath Palit (2026)** Effect of Pollution in Fresh Water Molluscs of Jalangi River in Krishnanagar, Nadia, West Bengal, National Seminar on “Innovation for Sustainability” (May 07-08, 2026) Department of Basic Sciences, The Neotia University (Indian Photobiology Society) ISBN: 978-81-687193-0-9,
2. Debapriya Dutta, **Debnath Palit (2020)**, Study on floral composition of Dalurbandh :a freshwater pit lake in Raniganj Coal Fields, West Bengal, India. *Proceedings of International Biodiversity Congress (IBC 2018)* Volume IV | pp. 1-5
3. Santanu Gupta, **Debnath Palit**, Ambarish Mukherjee (2014), Comprehensive restorative approach for conservation and management of wetlands in Birbhum district, West Bengal, India. In A.K. Sanyal, S.K Gupta, & S. Manna. *Biodiversity and Livelihood*. ISBN: 978-93-92258- 17-9, pp. 331
4. Debalina Kar, **Debnath Palit (2014)**, Ecological appraisal of Pit lakes of Raniganj coal field (RCF), West Bengal, India: Implications for Conservation and Sustainable use. . In A.K. Sanyal, S.K Gupta, & S. Manna. *Biodiversity and Livelihood*. ISBN: 978-93-92258- 17-9, pp. 395-400
5. Aparajita Mukherjee, **Debnath Palit (2014)**. Studies on the livelihood dependency of local stakeholders on wetland bio resources in Bankura district, West Bengal, India. In A.K. Sanyal, S.K Gupta, & S. Manna. *Biodiversity and Livelihood*. ISBN: 978-93-92258- 17-9, pp. 401-409
6. Partha Sarathi Basu, **Debnath Palit**, Arnab Banerjee (2011), Joint Forest Management—a new vista towards natural forest management. Full Paper proceedings on UGC Sponsored National seminar on Advances in Environmental Science and Technology organized by Department of Environmental Science and Department of Chemistry, Vivekananda College, Kolkata in Collaboration with Indian Science News Association, Kolkata, 5th and 6th February, 2011, Pp. 138.
7. Aditi Pal, Arnab Banerjee, **Debnath Palit (2011)**, Precision Farming –a new vista towards natural resources management. Full Paper proceedings on UGC Sponsored National seminar on Advances in Environmental Science and Technology organized by Department of Environmental Science and Department of Chemistry, Vivekananda College, Kolkata in Collaboration with Indian Science News Association, Kolkata, 5th and 6th February, 2011, Pp. 133.
8. Sanjib Das, Sudin Pal, **Debnath Palit (2012)**, Studies on plant species diversity and pedological characteristic of Rambhi Forest Beat, Senchal East Zone Forest Range, Darjeeling. In.G.G. Maiti and S. Mukherjee (Eds.) Full Proceedings of the *Multidisciplinary Approaches in Angiosperm Systematics*. ISBN: 978-93-5067-867 -1, pp-532-540. Kalyani University, Kalyani.
9. Sulochana Gurung, **Debnath Palit (2007)**, Medicinal plant lore among Lepchas in Darjeeling District, West Bengal, India. Full Paper Proceedings of National Symposium on Medicinal and aromatic plants for Economic Benefit of Rural People (MAPER) Pp 37-41. Ramakrishna Vivekananda Mission Institute of Advanced Studies, Kolkata.

PG Dissertation Guidance

Sl No.	Year	College of posting	Affiliating University	Name of PG Student	Title of PG Dissertation
1	2003	Darjeeling Government College	North Bengal University	Reshma Rai	Study of wall flora of Darjeeling Govt. College campus and adjoining areas
2	2004	Darjeeling Government College	North Bengal University	Bidhya Thatal	Ecological survey of Tea Garden Weeds in Happy Valley Tea Estate Darjeeling
3	2005	Darjeeling Government College	North Bengal University	Mousumi Kundu	Phytosociology and soil characteristics in Senchal East Zone Forest Range, Darjeeling
4	2005	Darjeeling Government College	North Bengal University	Pinki Sherpa	Soil vis-a-vis Vegetation of Gaddikhana Forest Areas, Darjeeling
5	2005	Darjeeling Government College	North Bengal University	Gopal Goswami	Ecological study of Rajmata Dighi, a wetland in Cooch-behar District, West Bengal
6	2005	Darjeeling Government College	North Bengal University	Sulochana Gurung	Ethnobotanical Implications of Plants of Darjeeling Hills
7	2006	Darjeeling Government College	North Bengal University	Sanjib Das	Phytosociology and pedological characteristics of forest soils of Rambi Forest Beat, Senchal East Zone Forest Range, Darjeeling
8	2006	Darjeeling Government College	North Bengal University	Soma Chanda	Plant Diversity indices and Pedalogical characteristics of Rangiroom Beat, Senchal, West Zone Forest Range, Darjeeling, West Bengal, India
9	2005	Darjeeling Government College	North Bengal University	RadhaKrishna Sharma	Environmental Impact Assessment of Copper Mining Industry in Rongpoo, North Sikkim
10	2007	Darjeeling Government College	North Bengal University	Shyamali Das	Ecological study on KathGola Dighi, a wetland in Falakata, Jalpaiguri
11	2007	Darjeeling Government College	North Bengal University	Neelu Tamang	Ecological implications of plants among Lepchas in North Sikkim
12	2007	Darjeeling Government College	North Bengal University	Shrabani Majumder	Eco-taxonomic study on Polygonum in different altitudes ranging from tropical to temperate realms
13	2010	Durgapur Government College	The University of Burdwan	Santanu Gupta	The diversity of Aquatic Macro invertebrates as an indicator of water quality and ecosystem health:A case study for Durgapur, West Bengal, India
14	2010	Durgapur Government College	The University of Burdwan	Debalina Kar	Differential Response of Chironomid Population in Correlation with Physico-Chemical Parameters of Soil and Water in and Around Durgapur Industrial Belt, West Bengal, India
15	2010	Durgapur Government College	The University of Burdwan	Aparajita Mukherjee	A study on the avifaunal diversity of Satragachi wetland (Ramsar site) West Bengal India
16	2010	Durgapur Government College	The University of Burdwan	Sharmila RoyChoudhury	Zooplanktonic diversity in relation to physicochemical parameters of Contaminated and Uncontaminated Waterbodies from Durgapur, West Bengal, India

17	2011	Durgapur Government College	The University of Burdwan	Mayukh Mukherjee	A Study of the Seasonal Butterfly and Odonate Diversity and Abundance, with Special Reference to the Wetlands of Durgapur, West Bengal, India
18	2011	Durgapur Government College	The University of Burdwan	Purbasha Banerjee	Conservation, Retoration and Management Plan for Santragachi Lake: An Urban Wetland, West Bengal India
19	2011	Durgapur Government College	The University of Burdwan	Arijit Pal	A Comparative Study on Seasonal Bird Diversity and Abundance in relation to Habitat Heterogeneity in an Urban region of West Bengal, India
20	2011	Durgapur Government College	The University of Burdwan	Piyali Kar	Assessment of Biota of Arjun Bandh, and its Adjoining Areas of Durgapur Industrial Township, West Bengal, India,
21	2011	Durgapur Government College	The University of Burdwan	Javed Mallick	A Study on Physico-Chemical Conditions and Macrophytes of Selected Wetlands of Durgapur Steel City, West Bengal, India
22	2012	Durgapur Government College	The University of Burdwan	Sangeeta Ghosh	Assessment of Seasonal Variation of Physicochemical characteric of Forest Floor of Durgapur Government College Campus, Burdwan, West Bengal
23	2012	Durgapur Government College	The University of Burdwan	Priyanka Mishra	Studies on Air Pollution Tolerance Index of plant species and associated air quality of selected sites of Durgapur Industrial Twnship, Burdwan, West Bengal

24	2012	Durgapur Government College	The University of Burdwan	Raj Kumar Layek	A Study on the Wetland Biodiversity and Rural Livelihood activities in Bankura, West Bengal, India
25	2013	Durgapur Government College	The University of Burdwan	Payel Majumder	Study on Microbial Diversity of Coal Mine Generated Wasteland in Some selected sites of Raniganj Coal Field Areas, Eastern Coalfield Limited, West Bengal, India: Implications for Reclamation of Wasteland
26	2013	Durgapur Government College	The University of Burdwan	Soma Chowdhury	Temporal Variation of Water Quality Parameters of Selected Wetlands of Durgapur Industrial Township, West Bengal, India
27	2014	Durgapur Government College	The University of Burdwan	Shiny Sarkar	Studies on Weed Diversity and Abundance of Selected Agricultural Fields of Durgapur Industrial Township, West Bengal, India
28	2014	Durgapur Government College	The University of Burdwan	Arpan Mukherjee	A Study on the Seasonal Pattern of the Butterfly Diversity in the Durgapur Industrial Area with an Eye on Butterfly Conservation
29	2014	Durgapur Government College	The University of Burdwan	Anusree Banerjee	A Study on Biota and Limnological Profile of a Closed reservoir of Nachan Dam, Durgapur, West Bengal, India
30	2014	Durgapur Government College	The University of Burdwan	Paromit Chatterjee	Studies on Temporal Variation of the Faunal Composition in two temporary water pools of Durgapur, West Bengal, India
31	2014	Durgapur Government College	The University of Burdwan	Indrani Biswas	Physicochemical Study of Different Springs of Bakreshwar, Birbhum, West Bengal, in two consecutive Winter and Summer Seasons
32	2019	Durgapur Government College	Kazi Nazrul University	Anupriya Biswas	Floristic composition and vegetation structure in Roopganj Forest Beat, Durgapur Forest Range, Burdwan Forest Division, West Bengal

33	2019	Durgapur Government College	Kazi Nazrul University	Debopriya Dutta	Composition, diversity and economic prospects of plants in and around Dalurbandh, a fresh water Pit lake in Raniganj Coal Field Areas (RCF), West Bengal
34	2019	Durgapur Government College	Kazi Nazrul University	Iesita Roy	Assessment of vegetation structure and estimation of Carbon storage potential of dominant species in Pardaha Natural Forest, Durgapur Forest Division, West Bengal
35	2022	Durgapur Government College	Kazi Nazrul University	Subhojyoti Majumder	Enumeration of Macrophytes and Embankment Flora of Arawal PitLake, Andal, Paschim Bardhaman

Invited Lecture/Paper Presentation in Conferences/Seminars

1. Special Invited Talk on Wetlands organized by Departments of Botany, Geography, Physiology and Zoology under the Seminar and Research Monitoring Sub-Committee and IQAC of Krishnagar Government College in collaboration with the East Kolkata Wetlands Management Authority on 10th February 2026.
2. Invited lecture in the Celebration of World Wetland Day and One Day National level Webinar pn ‘Wetland Biodiversity’ organized by Department of Botany, Sidho-Kanho Birsha University, Purulia, West Bengal, February 02, 2021.
3. Invited Lecture entitled, „Conservation of Wetland: Issues and Challenges”, in the UGC Sponsored National Conference on „Conservation of Wetlands and its Biodiversity in India with special reference to Orissa”, organized by Kendrapara Autonomous college, Kendrapara, Odisha, India on February 18-19, 2012
4. Invited Lecture and interactive session entitled “Addressing Ecological Concerns in and around the city of Durgpur: Some Fundamental Research Prospects” organized under DBT STAR COLLEGE SCHEME, by Durgapur Government College on May 29, 2024.
5. Presented a paper entitled *Identification of Pollution Tolerant Plant Species by analysis of morphological and biochemical parameters in the Durgapur Industrial Region* in the 30th ISCB International Conference 2025 on “Current Trends in Chemical, Biological and Pharmaceutical Sciences: Impact on Health and Environment” organized by Indian Council of Chemists and Biologists and Department of Chemistry, University of Lucknow, from January 27-29th, 2025.
6. Presented a paper entitled *A preliminary Survey of Wetlands in Birbhum District, West Bengal* in the National Seminar on Recent Trends of Research in Environmental Botany organized by The Department of Botany and Forestry, Vidyasagar University, Midnapore, W.Bengal, 27th March, 1999
7. Presented a paper entitled Economic Plants in Wetlands of Birbhum District, West Bengal in the Seminar on Information Technology for Rural Development organized by University Science Instrumentation Centre, Burdwan University and IEEE, Calcutta Section, Calcutta on 2nd September 1999 at Burdwan University.
8. Presented a paper entitled „On less known medicinal uses of plant diversity in Purulia District, West Bengal” in the National Conference on Plants, Microbes and Environment organized by the Department of Botany, Burdwan University on 11th and 12th March, 2000 at the University of Burdwan, Burdwan
9. Presented a paper entitled, „Biotechnology in Relation to Plant Biodiversity Conservation and Utilization- Positive and Negative Roles, UGC-CSIR sponsored National Conference on Biodiversity: Its Environmental Impact and Associated Diseases in India (November 27th and 28th, 2004) organized by Department of Zoology, P.D. Women’s College, Jalpaiguri, West Bengal
10. Presented a paper entitled Plants from Wetlands in Birbhum against some diseases gripping the district, in UGC sponsored National Conference cum workshop on Scientific Growing, Socio-Economic Value and Proper Utilization of Medicinal and Aromatic Plants for the Welfare of the Rural People. organized by Department of Botany, Bejoy Narayan Mahavidyalaya, West Bengal, India on February 25-27, 2005
11. Presented a paper entitled A Census of Grasses in the Wetlands of Birbhum District, West Bengal in the National Conference on Current Researches in Plant and Microbial Sciences organized by Department of Botany-SAP-UGC, the University of Burdwan, West Bengal on November 26-27, 2005
12. Presented a paper entitled „ Prospect of Wetlands in Birbhum District in Economic Development, in the National Conference on Wetlands, Science and Society-An Assessment of their Integration organized by Delhi University Botanical Society, Dept of Botany, University of Delhi (December 11- 13, 2007)

13. Presented a paper entitled Medicinal plantlore among lepchas in Darjeeling District, West Bengal, India in the National Symposium on Medicinal and aromatic plants for Rural People (MAPER), Orgd. By Ramakrishna Vivekananda Mission Institute of Advanced Studies, Kolkata, on 16-18th February, 2007.
14. Presented a paper entitled Studies on the Plant Diversity and pedrological characteristics of Rambhi forest beat, Senchal East Zone Forest Range, Darjeeling in the International Seminar on Multidisciplinary Approaches in Angiosperm Systematics. Organized. by Kalyani University, Kalyani. October 11-13, 2008
15. Presented a paper entitled „An overview of indigenous vegetation of some open cast coal mining areas of Raniganj, West Bengal, in the International Symposium on Angiosperm Systematics and Phylogeny: Retrospects & Prospects. Orgd. by National Botanical Research Institute , Lucknow, November 12-14, 2009.
16. Presented a paper entitled " *An insight into the phytodiversity of Gaddikhana forest in Darjeeling, Himalaya*" in the National Seminar on Diversity, Conservation and Sustainable Utilization of Plants and Traditional Knowledge in Eastern Himalaya. Orgd. by Department of Botany University of North Bengal and East Himalayan Society for Spermatophyte Taxonomy (December 14-16, 2010)
17. Presented a paper entitled „Assessment of Water Quality of Two Lotic Environments in Durgapur, West Bengal, India in the UGC Sponsored National Level Symposium on Pollution: Disbalancing the Global Environment: Threats and Prevention organized by Faculty of Science Bolpur College in collaboration with NIT, Durgapur and Departments of Biotechnology and Environmental Science, The University of Burdwan, March 05-06, 2011
18. Presented a paper entitled Ecological appraisal of pitlakes of Raniganj Coal Field (RCF), West Bengal, India: Implications for conservation and sustainable use in the National Symposium on Globalization, Environment and Sustainable Development. Orgd. by Department of Economics and Department of Commerce, Chandidas Mahavidyalaya, Khujutipara, Birbhum, March, 25-26, 2015