

Dr. Debnath Palit



Designation

Principal,
West Bengal Senior Education Service (WBSSES)

Qualification

M.Sc., Ph.D.

Experience

Teaching Experience

Undergraduate: 19+ Years
Postgraduate: 17 Years

Research Experience

22+ Years

Contact

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Principal, Durgapur Government
College, J.N. Avenue, Durgapur,
Paschim Bardhaman, West Bengal-
Pin Code: 713214

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Institutions Served

- **Present Affiliation**
Principal
Durgapur Government College
(wef Feb 09, 2021)
- **Durgapur Government College**
(Affiliated to Kazi Nazrul University)
Associate Professor of Head, Department of Botany
(Nov 17, 2016 to Feb 09, 2021)
- **Dr. APJ Abdul Kalam Government College**
(Affiliated to West Bengal State University)
Associate Professor of Botany
(Aug 3, 2016 to Nov 16, 2016)
- **Durgapur Government College**
(Affiliated to The University of Burdwan)
Assistant/Associate Professor of Botany
(Dec 03, 2008 to Aug 01, 2016)
- **Bidhannagar Government College**
(Affiliated to University of Calcutta)
Lecturer (Sr. Scale), Botany
(Aug 02, 2007 to Dec 02, 2008)
- **Darjeeling Government College**
(Affiliated to North Bengal University)
Lecturer, Botany
(April 01, 2002 to July 31, 2007)

Research Interest

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

Teaching activities

Both offline and online methods of teaching are adopted to implement a student centered learning mechanism. Courses taught for B.Sc. Honours Programme in Botany are Morphology of Angiosperms (Semester-II), Plant Systematics (Semester-III), Biochemistry and Ecology (Semester-IV), Plant Physiology (Semester-V), Analytical Techniques in Plant Science (Semester-V), Horticultural practices & Post-Harvest Technology (Semester-VI).

Administrative Experience

- **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, 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 till date)

Research Collaborations

- Department of Zoology and Chemistry University of Burdwan
- Post-Graduate Department of Geology, Durgapur Government College
- Department of Zoology, Calcutta University

Research Publications

1. 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) S140-S146
2. 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
3. Banerjee S, Palit D and **Banerjee A.**(2020) 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>
4. 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*. <http://www.rjlbps.com/article-pdf-downloads/2019/28/656.pdf>
5. 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), 01-17. https://www.ijr.org/down_82562.php
6. 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*. https://www.ijcrr.com/uploads/2617_pdf.pdf
7. 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, 5827-5870. <https://link.springer.com/article/10.1007/s13762-018-1963-9>
8. **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. https://www.researchgate.net/publication/334769745_Analyzing_Water_Quality_Index_of_Selected_Pit-Lakes_of_Raniganj_Coal_Field_Area_India
9. **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):8-17. [http://www.researchjournal.co.in/online/TAJH/TAJH%2013\(1\)/13_8-13_A.pdf](http://www.researchjournal.co.in/online/TAJH/TAJH%2013(1)/13_8-13_A.pdf)
10. **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. [https://www.worldwidejournals.com/indian-journal-of-applied-research-\(IJAR\)/fileview/June_2017_1496325441143.pdf](https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/fileview/June_2017_1496325441143.pdf)

Research Publications

11. **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. [https://www.worldwidejournals.com/indian-journal-of-applied-research-\(IJAR\)/fileview/October_2017_1506778122_134.pdf](https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/fileview/October_2017_1506778122_134.pdf)
12. **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. https://www.ijcrr.com/uploads/1219_pdf.pdf
13. **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. <https://www.semanticscholar.org/paper/Studies-on-Macrophyte-Diversity-in-Lalbandh-West-Palit-Kar/fb2e53c2d61523c3358e62d68e0eda5c14e79d22>
14. **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.
15. **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
<https://scialert.net/abstract/?doi=jps.2017.59.67>
16. Payel Majumder, **Debnath Palit*** (2017), Isolation, Identification and Characterization of Bacteria of Coal Mine Soil at Sonapur Bazari of Raniganj Coalfield, West Bengal. *International Journal of Applied Environmental Sciences*, 12(6), pp. 1131-1140. https://www.ripublication.com/ijaes17/ijaesv12n6_07.pdf
17. **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.
https://pdfs.semanticscholar.org/accb/foa9c4e5be66a34a40b34cd61da75d155118.pdf?_ga=2.157054523.1054093384.1593798511-510288236.1593692900
18. **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. <https://www.ijirem.org/DOC/3fa51a771-e0c7-491e-92a2-3eb138ba995a.pdf>
19. 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): 174-180.
https://american-jiras.com/Abstract6_April2106.html
20. 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.
https://www.researchgate.net/publication/333701138_NATURAL_OCCURRENCE_OF_PLANTS_IN_BANKOLA

Research Publications

21. **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.
<http://dx.doi.org/10.20546/ijcrbp.2016.306.010>
22. 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. <https://www.ijser.org/researchpaper/Assessment-of-plant-species-assemblages-with-their-distribution-in-an-open-cast-mining-area-of-Raniganj-coalfield-West-Bengal-India.pdf>
23. 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.
<https://www.ijcmas.com/5-9-2016/Shiboram%20Banerjee,%20et%20al.pdf>
24. 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 Environment*, 31(2): 99-111. <http://www.ceser.in/ceserp/index.php/ijed/article/view/4325>
25. 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.
<https://www.ijcmas.com/5-2-2016/Payel%20Majumder%20and%20Debnath%20Palit.pdf>
26. 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. <https://zoosprint.zooreach.org/index.php/zp/article/download/730/716>
27. Santanu Gupta, Aparajita Mukherjee, **Debnath Palit*** (2015), Reporting of (Sand?) Martin Riparia (riparia?) From Durgapur Barrage, West Bengal, India. *Zoosprint*, 30 (7):6-9
<https://www.zoosprint.zooreach.org/index.php/zp/article/view/768/754>
28. 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.
http://www.journalijar.com/uploads/597_IJAR-4192.pdf
29. 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. <https://www.ijcmas.com/vol-3-9/Tripti%20Bouri,%20et%20al.pdf>
30. **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.
<https://www.ijltemas.in/DigitalLibrary/Vol.3Issue10/106-112.pdf>

Research Publications

31. **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 Science*, 30(4): 331-341.
<https://doi.org/10.7747/JFES.2014.30.4.331>
32. 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.
https://www.researchgate.net/publication/261178223_A_Contribution_to_the_Fish_faunal_status_in_wetlands_of_Birbhum_District_West_Bengal_India
33. 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.
<http://www.ijset.net/journal/460.pdf>
34. 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.
https://www.researchgate.net/publication/268924578_Preliminary_Assessment_of_Designated_Usages_Effective_Wetland_Management_Strategies_EWMS_in_Wetlands_of_Birbhum_District_West_Bengal_India
35. 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.
https://www.researchgate.net/publication/333700910_PHYTODIVERSITY_OF_SELECTED_COAL_MINE_S
36. 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.
37. Debalina Kar, **Debnath Palit*** (2014), Perception Regarding Reclamation Strategies in Coal Mine of RCF in West Bengal - A Case Study from India: Implications for Future Development Perspectives in Wasteland Eco restoration. *Journal of Applied Technology in Environmental Sanitation*, 4(1): 1-6.
https://www.researchgate.net/publication/261177953_Perception_Regarding_Reclamation_Strategies_in_Coal_Mine_of_RCF_in_West_Bengal_-_A_Case_Study_from_India_Implications_for_Future_Development_Perspectives_in_Wasteland_Eco_restoration
38. Debalina Kar, Arnab Banerjee, **Debnath Palit*** (2014), Studies on Phyto-diversity of different types (OCP, PIT, INCLINED) of mines in Raniganj coalfield area, West Bengal, India. *Asian Academic Research Journal of Social Science and Humanities*. 1(19): 515-522.
https://www.researchgate.net/publication/334681002_STUDIES_ON_PHYTO-DIVERSITY_OF_DIFFERENT_TYPES_OCP_PIT_INCLINED_OF_MINES_IN_RANIGUNJ_COALFIELD_AREA_WEST_BENGAL_INDIA
39. **Debnath Palit***, Aparajita Mukherjee, Santanu Gupta, Debalina Kar (2014), Water quality in the pit lakes of Raniganj coal field, West Bengal, India. *Journal of Applied Sciences in Environmental Sanitation*, 9(1): 1-6.
40. Partha Sarathi Basu , **Debnath Palit***, Arnab Banerjee (2013), Assessment of Diversity and Resource Potential of Non-Timber Forest Product(NTFP) in Selected Sites of Bishnupur Forest Division of Bankura District, West Bengal, India, *New York Science Journal*, 6(5): 46-53.

Research Publications

41. Tripti Bouri, **Debnath Palit**,* Ambarish Mukherjee (2013), Phytosociology and Pedological characteristics of selected beats of Durgapur forest range, W.B, India. *Communications in Plant Science*, 3(3-4): 37-45. <https://doaj.org/article/4c891ba297f1469388ee3a527aec9bac>
42. Mousumi Garai, Debalina Kar, **Debnath Palit**,* Arnab Banerjee (2013), Phytosociological Assessment of Vegetation of Durgapur Government College Campus, Durgapur, West Bengal, India. *International Journal of Engineering Research and applications*, 3(6): 835-840. http://www.ijera.com/papers/Vol3_issue6/EK36835840.pdf
43. Santanu Gupta, **Debnath Palit*** (2013), Effect of Limnochemical Variables on the Aquatic Macrophyte Composition in Wetlands of Birbhum District. *Pollution Research*, 32(4) : 737- 742. http://www.envirobiotechjournals.com/article_abstract.php?aid=4766&iid=165&jid=4
44. Santanu Gupta, **Debnath Palit*** (2013), Inventory and characterization of wetlands in Birbhum district, West Bengal, India: implications for conservation. *Ecology, Environment and Conservation*, 19(4): 995-1000. http://www.envirobiotechjournals.com/article_abstract.php?aid=4811&iid=166&jid=3
45. Santanu Gupta, **Debnath Palit***, Aparajita Mukherjee, Debalina Kar (2013), Inventory of Pit Lakes in Raniganj Coal Field, West Bengal India. *Journal of Applied Technology in Environmental Sanitation*, 3(1): 55-60.
46. Santanu Gupta, Aparajita Mukherjee, **Debnath Palit***, Paromit Chatterjee, Indrani Biswas (2013), A Reporting on Wire Tailed Swallows (*Hirundo smithii*) winter visit to Durgapur Barrage, West Bengal, India. *Zoosprint*, 28(8): 22-24.
47. **Debnath Palit**,* Arnab Banerjee (2013), Species Diversity and Pedological Characteristics in Selected Sites of Senchal Wildlife Sanctuary, West Bengal, India. *Journal of Environment and Ecology*, 4(1): 111-137. https://www.researchgate.net/publication/261178044_Species_Diversity_and_Pedological_Characteristics_in_Selected_Sites_of_Senchal_Wildlife_Sanctuary_West_Bengal_India
48. **Debnath Palit**,* Debalina Kar, Priyanka Mishra, Arnab Banerjee, (2013), Assessment of Air Quality Using several Biomonitors of selected sites of Durgapur, Burdwan District by Air Pollution tolerance index approach. *Indian Journal of Scientific Research*, 4(1): 149-152. https://www.ijsr.in/upload/744301032CHAPTER_27.pdf
49. Aparajita Mukherjee, **Debnath Palit*** (2013), Appraisal of Use Pattern in Wetlands of Bankura, a Drought Prone Region from Eastern India. *Journal of Applied Technology in Environmental Sanitation*, 3(4): 141-146. https://www.researchgate.net/profile/Aparajita_Mukherjee/publication/257956791_Appraisal_of_Use_Pattern_in_Wetlands_of_Bankura_a_Drought_Prone_Region_from_Eastern_India/links/00b7d529debdea4aa5000000/Appraisal-of-Use-Pattern-in-Wetlands-of-Bankura-a-Drought-Prone-Region-from-Eastern-India.pdf
50. **Debnath Palit**,* Santanu Gupta, Arnab Banerjee, Aparajita Mukherjee (2013), Macro invertebrate Community- Environmental Interrelationship in Selected Lotic Ecosystem from Durgapur, West Bengal, India. *Journal of Applied Sciences in Environmental Sanitation*, 8(4): 231-236.

Research Publications

51. **Debnath Palit,*** Santanu Gupta, Arnab Banerjee, Aparajita Mukherjee (2013), Aquatic Macro invertebrate Diversity Based Bio monitoring of Selected Lotic Environments in Durgapur, West Bengal, India: Implications for Ecological Health Status Prediction. *Journal of Applied Technology in Environmental Sanitation*, 3(3): 117-122.
52. Sharmila Roy Choudhury **Debnath Palit,*** Arnab Banerjee (2013), Assessment of zooplankton diversity in relation to physico-chemical parameters of water in selected water bodies of Durgapur Industrial region, West Bengal, India. *Asian Journal of Water, Environment and Pollution*, 10(4): 99-115.
<https://content.iospress.com/articles/asian-journal-of-water-environment-and-pollution/ajw10-4-11>
53. Sanchita Banerjee, Debalina Kar, Arnab Banerjee, **Debnath Palit,*** (2012), Utilization of some aquatic macrophytes in Borobandh-a lentic water body in Durgapur, West Bengal, India: Implications for socio-economic Up-liftment of local stakeholder. *Indian J. Applied & Pure Bio.* 27(1): 83-92.
https://www.researchgate.net/publication/259476030_Utilization_of_some_Aquatic_macrophytes_in_Borobandh-a_lentic_water_body_in_Durgapur_West_Bengal_India_Implications_for_socio-economic_upliftment_of_local_stakeholder
54. Shyamali Das, Sudin Pal, **Debnath Palit,*** (2012), An Insight into the Physico-Chemical characteristics of Water and Soil along with Macrophyte Diversity in Kathgola Dighi: A Freshwater Wetland in Jalpaiguri District, West Bengal, India. *Journal of Biodiversity and Ecological Sciences*, 2(3): 189-195.
https://www.researchgate.net/publication/262912784_An_Insight_into_the_Physico-Chemical_characteristics_of_Water_and_Soil_along_with_Macrophyte_Diversity_in_Kathgola_Dighi_A_Freshwater_Wetland_in
55. **Debnath Palit,*** Santanu Gupta (2012), Seasonal Changes in Limnological Parameters and Macrophyte Diversity Associated with Wetlands in Birbhum District, West Bengal, India. *Indian Journal of Plant Science*, 1(2-3): 97-115.
<https://www.cibtech.org/J-Plant-Sciences/PUBLICATIONS/2012/Vol-1-No-2&3/10-016...Palit...Seasonal...District.pdf>
56. **Debnath Palit,*** Aparajita Mukherjee (2012), Studies on water quality and macrophyte composition in wetlands of Bankura district, West Bengal, India. *Indian Journal of Plant Science*, 1(2-3): 221-228.
<https://www.cibtech.org/J-Plant-Sciences/PUBLICATIONS/2012/Vol-1-No-2&3/25...Palit...Studies...on...District.pdf>
57. **Debnath Palit,*** Debalina Kar, Santanu Gupta, Aparajita Mukherjee (2012), A comparative study of soil of different Coal Mines in RCF. *Indian Journal of Environmental Protection*, 32(6): 471-477.
https://www.researchgate.net/publication/256980789_A_Comparative_Study_of_Soil_of_Different_Mine_Types_OCP_Pit_Inclined_in_and_Around_Ranigunj_Coal_Field_Area_West_Bengal

Research Publications

58. **Debnath Palit**,* Sudin Pal (2012), An investigation on mural plant diversity in Darjeeling Government College campus and adjoining areas, Darjeeling, West Bengal. *NeBio*, III (2): 58-62. <https://www.researchgate.net/publication/261178043> An investigation on mural plant diversity in Darjeeling Government College campus and adjoining areas Darjeeling West Bengal
59. **Debnath Palit**,* Sudin Pal, Soma Chanda (2012), Diversity and richness of plants in Darjeeling Himalaya with an eye on Gaddikhana forest beat, Senchal east zone forest range, Darjeeling. *Indian Journal of Forestry*, 35(1): 39-44.
60. Debalina Kar, Arnab Banerjee, **Debnath Palit**,* (2011) Assessment of Water Quality of Some Selected sites of Durgapur Industrial Belt, West Bengal, India through Distribution and Abundance of Larval Chironomidae in Relation with Physicochemical Characteristics of Water. *International Journal of Lakes and Rivers*, 4 (2): 177-198. <https://www.researchgate.net/publication/261177936> Assessment of Water Quality of Some Selected Sites of Durgapur Industrial Belt West Bengal India through Distribution and Abundance of Larval Chironomidae in Relation with Physicochemical Characteristics
61. **Debnath Palit**,* Ambarish Mukherjee (2011), Characterization of Physico-chemical properties of water and soil in Lalbandh, a freshwater wetland in Birbhum District, West Bengal. *Ecology Environment and Conservation*, 17(3): 557-562. http://www.envirobiotechjournals.com/article_abstract.php?aid=242&iid=14&jid=3
62. **Debnath Palit**,* Sudin Pal, Joydeep Acharya (2011), Tea-Garden Weeds of Happy Valley Tea Estate, Darjeeling, West Bengal: Ecological and Economic Aspects. *Journal of Economic and Taxonomic Botany*, 35(2): 412-417.
63. Gopal Goswami, Sudin Pal, **Debnath Palit**,* (2010), Studies on the Physico-Chemical characteristics, Macrophyte Diversity and their Economic Prospect in Rajmata Dighi: A wetland in Cooch Behar District, West Bengal, India. *NeBIO*, 1(3): 21-27.
64. Kundu, Sudin Pal, **Debnath Palit**,* (2010), A contribution on the plant diversity in 6th Mile Beat, Senchal East Zone Forest Range, West Bengal, India. *Journal Swamy Botanical Club*, 27: 85-92.
65. Sudin Pal, **Debnath Palit**,* (2010), Traditional knowledge and bio resource utilization among Lepcha in North Sikkim. *NeBIO*, 2(1): 13-17.
66. **Debnath Palit**,* Mayukh Mukherjee, Pipasha Borah (2010), Warfare's: Our Decaying Climate. *Communique*, 4(1): 71-80.
67. Nilu Tamang, **Debnath Palit**,* (2010), An ethno botanical study on the Lepchas in North Sikkim. *Pleione*, 4(1): 63-68.
68. Soma Chanda, **Debnath Palit**,* (2009), Plant diversity indices and pedological characteristics of Ragiroom Beat, Senchal West Zone Forest Range, Darjeeling, West Bengal, India. *Pleione*, 3(1): 50-58.

Research Publications

69. **Debnath Palit,*** Shyamali Das, Papiya Nandy Palit (2009), Studies on physico-chemical characteristics of soil and water in Kathgola Dighi, a wetland near Falakata, Jalpaiguri, West Bengal. *Indian Journal of Landscape Systems Ecological Studies*, 32(1): 149-1154.
70. **Debnath Palit,*** Sulochana Gurung (2008), Some phytoremedies used traditionally by Gurungs in Darjeeling, West Bengal, India. *Pleione*, 2(2): 171-174.
71. Papiya Nandy Palit, **Debnath Palit,*** (2008), Ecological investigation on wetlands of Birbhum District, West Bengal. *Indian Journal of Landscape Systems Ecological Studies*, 31(2): 112-117.
72. Amarendra Nath Mahata, Madhusudan Mondal, **Debnath Palit,*** Ambarish Mukherjee (2007), Trees for energy forests in wastelands of Bihar, Orissa and West Bengal. *Ecology Environment and Conservation*, 13(2): 439-445.
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74. **Debnath Palit,*** Gautam Bala, Ambarish Mukherjee (2006), Sedges in wetlands of Birbhum District, West Bengal. *Flora and Fauna*, 12(2): 269-274.
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Guidance of PhD Scholars

1. 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, **Ph.D Guide: Dr. Debnath Palit**
2. 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, **Ph.D Guide: Dr. Debnath Palit**
3. Debalina Kar (*Awarded: 2016, The University of Burdwan*) Phytoremediation of some selected wastelands in colliery belt of Raniganj, West Bengal, India, **Ph.D Guide: Dr. Debnath Palit**
4. Shiboram Banerjee (*Awarded: 2020, The University of Burdwan*) Air Quality Monitoring Using Available Plant Species of Durgapur Industrial Township, West Bengal, **Ph.D Guide: Dr. Debnath Palit**
5. 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. **Ph.D Guide: Dr. Debnath Palit**
6. Babli Garai (*Awarded: 2020, The University of Burdwan*) Succession of Plant Diversity based on selected pit lakes of Raniganj Coal fields, India, **Ph.D Guide: Dr. Debnath Palit**

Sponsored Research Projects

1. **Dr. Debnath Palit** (PI), "Eco-friendly technology for restoration mined wastelands in Raniganj Colliery areas", UGC Minor Research Project (Sanction letter No. PSW- 017/09- 10 (ERO) dated 08.10.2009) Sanctioned: 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 (Sanction letter No. PSW- 008/12-13 (ERO) dated 05.02.2013) Sanctioned: 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, 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, Rs. 4,60,000/-; Tenure: 2010-2013.

Guidance of M.Sc. Projects

Supervised Dissertation work for M.Sc. in Botany at Darjeeling Govt. College under University of North Bengal and Post Graduate Department of Conservation Biology, Durgapur Government College under The University of Burdwan and Kazi Nazrul University.

University of North Bengal

Topic of Dissertation	Academic Session
Study of wall flora of Darjeeling Govt. College campus and adjoining areas	2002-2003
Ecological study of Tea Garden Weeds in Happy Valley Tea Estate Darjeeling	2003-2004
Phytosociology and soil characteristics in Senchal East Zone Forest Range, Darjeeling.	2004-2005
Vegetation vis-a-vis soil of Gaddikhana Forest Areas, Darjeeling.	2004-2005
Ecological study of Rajmata Dighi, a wetland in Cooch-behar District, West Bengal.	2004-2005
Ethno botanical study with special reference to some tribal communities in Darjeeling Hill areas.	2004-2005
Phytosociology and pedological characteristics of forest soils of Rambh Forest Beat, Senchal East Zone Forest Range, Darjeeling.	2005-2006

Guidance of M.Sc. Projects

University of North Bengal

Topic of Dissertation	Academic Session
Ecological study on the plant diversity and influence of vegetation on the properties of soil in Rangirum Forest Beat, Senchal West Zone Forest Range, Darjeeling.	2005-2006
Ecological study on Chatterjee Dighi, a wetland in Falakata, Jalpaiguri	2006-2007
Ethnobotanical implications of plants among Lepchas in East Sikkim.	2006-2007
Eco-taxonomic study on <i>Polygonum</i> in different altitudes ranging from tropical to temperate realms.	2006-2007
Environmental Impact assessment from a copper mining industry in Roogpu, Sikkim.	2006-2007

The University of Burdwan

Topic of Dissertation	Academic Session
The Effect and Evaluation of Toxicity of Municipal sewage Water on Colonization Rate and Community Structure of Zooplankton : A Microcosm Study	2007-2009
Seasonal & Temporal Variation of Entomofaunal Diversity with Reference to Different Light Condition	2007-2009
People's Dependency on Bioresources A Socio-Economic Survey in Durgapur Subdivision of West Bengal	2007-2009
The diversity of Aquatic Macro invertebrates as an indicator of water quality and ecosystem health: A case study for Durgapur, West Bengal, India.	2008-2010
A study on the avifaunal diversity of Satragachi wetland (Ramsar site) West Bengal India.	2008-2010
Comparative study on the aquatic macrophyte diversity in lentic and lotic ecosystem from urban areas of Durgapur, West Bengal, India	2008-2010
A preliminary study on the aquatic macro invertebrate diversity in different lentic and lotic environments from Durgapur, West Bengal, India	2008-2010
A study on the zooplankton diversity in relation to physicochemical parameters of different lentic and lotic environments from Durgapur, West Bengal, India.	2008-2010

Kazi Nazrul University

Composition, diversity and economic prospects of plants in and around Dalurbandh, a fresh water Pit lake in Raniganj Coal Field Areas (RCF), West Bengal	2017-2018
Floristic composition and vegetation structure in Roopganj Forest Beat, Durgapur Forest Range, Burdwan Forest Division, West Bengal	2018-2019
Assessment of vegetation structure and estimation of Carbon storage potential of dominant species in Pardaha Natural Forest, Durgapur Forest Division, West Bengal	2018-2019

Membership in State/National level bodies

1. Life Membership of International Academy of Science and Research, Kolkata, India
2. 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
3. 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.
4. Life Member, National Environmental Science Academy, New Delhi
5. Natural Member, East Himalayan Society for Spermatophyte Taxonomy, Department of Botany, North Bengal University, Siliguri, Darjeeling.
6. Life Member, The Zoological Association of Burdwan, Sarat Pally, Burdwan
7. Member, Adhoc Board of Research Studies (BRS) in Conservation Biology, Burdwan University
8. Member, Adhoc Board of Research Advisory Committee (RAC) in Conservation Biology, Burdwan University
9. Member, Under Graduate Board of Studies (UGBS) in Botany, Kazi Nazrul University, Asansol (2016-2019)
10. Member, Governing Body of Michael Madhusudan Memorial College, Durgapur, University Nominee from Kazi Nazrul University, Asansol
11. Member, Finance Committee of Michael Madhusudan Memorial College, Durgapur,
12. Member, Internal Quality Assurance Cell (IQAC) of Michael Madhusudan Memorial College, Durgapur,
13. Member, Governing Body of Durgapur Government College Durgapur, Teachers Representative
14. Member, Internal Quality Assurance Cell (IQAC) of Durgapur Government College, Durgapur
15. Course Convener of Botany, Kazi Nazrul University, Asansol
16. Chief Coordinator of Botany, Kazi Nazrul University, Asansol
17. Chairperson, Under Graduate Board of Studies (UGBS) in Botany, Kazi Nazrul University, Asansol (2020-2024)