CURRICULUM VITAE

Name:	**SUBHAS CHANDRA SANTRA**
Designation &Address:	Ex-Professor in Environmental Science, Department of Environmental Science, University of Kalyani Ex-Coordinator, ENVIS Centre on Environmental Biotechnology (MoEF, Govt. of India Sponsored)
Residential Address	1/1 B Nalapukur Lane, Behala, Kolkata – 7000 034 Email: scsantra@yahoo.com, (M): 9433215100
Profession	Teaching and Research,
Date of Birth:	19th December, 1953
Educational Qualifications:	M.Sc. & Ph.D. in Botany (University of Calcutta), PRS (Sc.) University of Calcutta.
Area of Specialization:	Environmental Biology, Environmental Biotechnology, Microbiology, Ecology, Limnology, Phycology, Bioremediation and Toxicology.
Teaching & Research:	•Sept, 1973- March, 1985: – Lecture in Govt. College, W.B. •March, 1985- July, 1998: - Reader in Kalyani University •July, 1998 – Dec, 2016:- Professor in Kalyani University • 2017-2019: - visiting professor, School of Environmental Studies, Jadavpur University.
Honours/ Awards/ Nomination/ Fellow:	•Premchand Roychand Fellowship (University of Calcutta), 1982 •Austrian Govt. Fellowship, 1985. • DAD Fellowship, 1990 •IVP Fellowship, USA,1993 •DST visiting Fellowship, 1996 •UGC visiting guest faculty,2005 •Fellow of Indian Biological Association. •Vice president & Fellow, W.B. Academy of Science & Technology, •J.C.Sangupta Endowment lecture, W.B. Academy of Science & Technology, •Coordinator, ENVIS Centre on Environmental Biotechnology, supported by MoEF, Govt. of India Since 2002. •J.C.Sengupta Endowment Lecture
Key Experience:	• Teaching and Research experience - 40 years • Acting as Coordinator of ENVIS Centre – 10 years • Acted as Head of the Department – 5times • Acted as Coordinator of refresher course – 4 times • Acted as Vice President of West Bengal Academy of Science & Technology – last 4years
Research supervision:	• **64** students awarded Ph.D. on Environmental Science • Over **50** students completed M. Phil. dissertation on various aspects during 1991 – 1997 and 2005-2008 on Environmental Science. • Over **100** students completed M. Sc. dissertation
Research projects	• **20** research project Completed (Funded by various agencies like UGC, DST, MoEF, Dept. of Forest, IUC-DAE, ICFRE, Dept. of Non. Conv. Energy, WBPCB, Rajib Gandhi Technology Mission , Dept of Env, W.B. etc **)**

Publication

- Over **320** Research paper in referred journals (*Annex*)
- **20** No. of Text and reference books (*Annex*)
- Over **95** Conference/seminar articles (*Annex*)
- Over **50** EIA reports (*Annex*)

Editor of Journals

- **Associate Editor**, International Journal of Environmental Science & Technology, Terhan, Iran, pISSN-17351472, eISSN -17352630, IF- 3.157, h-index -23, IC value -19.26.

Reviewer

- Current Regular Reviewer of more than 1**5** Journals (*Annex*)

Membership of Scientific & Institutional Bodies

Life member:

- Indian Science Congress Association.
- Indian Biological Association.
- National Botanical society.
- Indian Aerobiological Society.

Expert member

Acting as member of UGC Expert Committee, MoEF expert committee, State Biodiversity Board, W.B. State Pollution Control Board, Central Pollution Control Board, Member of the State Environment Appraisal Committee (nominated by MoEF, Govt. of India)

Examiner, Moderator & Reviewer of different Universities of India & outside (PG & Ph.D. Programme).

Consultancy service

Consultancy service (EIA) and report preparation over **40** various developmental projects all over the India on behalf of the University since 1996 & deposited over **Rs. 20 lakhs** in University (No payment received as consultant)

Travel Abroad

Visited various laboratories in Britain, France, Sweden, Germany, USA, Bangladesh, Australia, Taiwan, China on assignment

Key Qualification:

Teaching -

Faculty member for the post-graduate course on Environmental Science, Botany, Biochemistry, Biophysics, Biotechnology, Microbiology and Business Administration, KU.

Research –

- 1972 – 1978: Worked on various aspects of fresh water phycology, Limnology in Sub-Himalayan region (including Taxonomy of Blue Greens).
- 1978 – 1985: Worked on river phycology and marine algae
- 1985 – 1992: Worked on Aerophycology, BGA in rice field system and ecotoxicological assessment using BGA.
- 1992 – 1997: Investigation on various aspects of Bio-monitoring of Environmental Quality & EIA.
- 1997 - Till date: Arsenic problems in W. B., Toxicological aspects, Algal biotechnology and Mangrove ecology, Bioremediation, Bioprospecting, Phyllosphere microorganisms
- **Specialized studies on Arsenic problems in West Bengal**: Biological aspects of arsenic removal from contaminated water; Arsenic flow in Ecosystem, Dietary influence of Arsenicosis, Greenhouse gas emission mitigation from rice ecosystem.
- **Citation indices of in Google Scholar** (dt.18.09.2023):- **Citation – 5512; h-index – 40 ; i10-index – 108.**
- **Indexing of publications (Scopus)** (dt.18.09.2023)**: h index -31; Citation - 2648.**
- **Research GATE Score** (dt.18.09.2023)**:** RG Score -2795 ; Citations- 4470; **h-index – 40.**

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PUBLICATIONS: *Annexure*

A. Research papers:

1. Zygnemataceae of Eastern Himalayas I: Spirogyra, S. C. Santra and T. K. Adhya, 1973, Bull. Bot. Surv. Ind., 15 (3 & 4), 281-282.
2. Zygnemataceae of Eastern Himalayas II: Spirogyra Link, S. C. Santra and T. K. Adhya, 1976,Bull.Bot. Soc. Bengal, 30, 47-49.
3. Vancheriaceae of Eastern Himalayas (India), S. C. Santra and T. K. Adhya, 1976, Nova Hedwigia, XXVII, 655-659.
4. Effect of polyene antibiotic. A-435 on micro morphology of filamentous fungi, S. C. Santra and A. L. Chandra, 1976, Hindusthan Anti. Bull., 18 (3 & 4), 103-105.
5. Sirocladium himalayaensis- A new species from India, S. C. Santra and T. K. Adhya, 1977, Phykos, 16 (1&2), 65-68.
6. Draparnaldiopsis indica Bhradwaa- A new record from West Bengal, T. K. Adhya and S. C. Santra, 1977, Sci. and Cult., 43, 399.
7. Shifting cultivation, in current Trends in Indian Environment (Ed. Desh Bandhu), S. C. Santra, 1977, Today and Tomorrow Publ. New Delhi, 135-140.
8. Wild life conservation - Legal and Institutional Arrangement, in Managing the Environment, S. C. Santra, 1978, Indian Environment Society, New Delhi, 143-148.
9. Environmental Polution, S. C. Santra, 1979, Proceedings National Symposium on Land and Water Management in Indus Basin (India), Vol. II, Ludhiana, India, 619-623.
10. Cytological effects of polyene antibiotic A-435, S. C. Santra and A. L. Chanda, 1979, Microbial. Bull., 3,18.
11. Development of Tibetan Plant Medicine, S. Lama, S. C. Santra and A. L. Chanda, 1979, Sci. and Cult., 45 (7), 262-265.
12. Ecological studies on Bidens pilosa L.: Effect of light, temperature, salt and different extracts on seed germination and seedling growth, S. C. Santra, T. K. Adhya and D. K. Desarkar, 1981, Tropical Ecology, 22 (2), 162-169.
13. Indoor airborne fungal spore flora of Calcutta, West Bengal, S. C. Santra and S, Chanda, 1981, Proc. Nat. Con. Environmental Biopollution, 45-48.
14. A new leaf spot disease of lemon grass, S. C. Santra, 1991, Phytopath, 34 (4), 525.
15. Chemical and biological studies of polyenes- A review Trans., S. C. Santra and A. L. Chandra, 1981, Bose Res. Inst., 44 (3) 65-73.
16. Corticolous lichens on Mango tree (Mangifera indica L.) of West Bengal, M. Bhowmik, T. K. Adhya and S. C. Santra, N. V. M. Patrika, 16 (1-2), 43 - 44.
17. Contribution to the Cyanophyceae of Murshidabad, T. K. Pal and S. C. Santra, 1982, Phykos., 21, 150-152.
18. Diatoms of Senchal Lake, Darjeeling, West Bengal, P. R. Das and S. C. Santra, 1982, Phykos., 21, 99.
19. Microbial Pollution, S.C. Santra, 1982, IGA Review, 7,101-104.
20. Biochemical localisation of starch bodies around infected region in coast infected potato plants, S. C. Santra, 1983, Ind. Phytopath., 36 (2), 335-356.
21. Bryophytic flora of Sikkim: Calobrium blumi Nees - A new record from the Sikkim Himalayas, S. C. Santra, 1983, Sci. And Cult., 49, 57-58.
22. Polyene induced morphological changes in filamentous fungi, S. C. Santra and A. L. Chandra, 1983, J. Ind. Microbial. Soc., 139-142.
23. Application of Scanning Electron Microscope (SEM) technique in the study of oral microflora of man in tropics, R. Sen and S. C. Santra, 1984, Proc. Intl. Symp. on Electron Microscopy, Singapore, 397-398.

24. Traffic Noise level in Calcutta, in seminar on Calcutta beyond 2000 A.D., B. Roy, S. C. Santra, S. Chanda and B.Mitra, 1984, Sci. and cult., 50, 62-64.
25. Role of Microbes in Air Pollution, S. C. Santra, 1984, Newsletter, EPCO, Bhopal, India, 3, 1.
26. New additions to algal flora of Murshidabad, West Bengal, T. K. Pal and S. C. Santra, 1984, Phykos, 23 (1&2), 139-141.
27. Algal flora of Sikkim Himalayas I.A. Contribution to our knowledge of blue-green algae of North East Sikkim (India) S. C. Santra, 1984, J. Econ. Tax. Bot. 5 (5), 1209-1219.
28. Studies on the effect of polluted environment on plants in the industrial wasteland of southern West Bengal, India, I: Anatomical changes, A. K. Sahu and S. C. Santra, 1985, Res. J. Plant and Environment 2(1) : 39-41.
29. Blue-green algal flora of 24 Paraganas, West Bengal (India) , H. Maity and S. C. Santra, 1985, Phykos, 24, 46-51.
30. A note on Enteromorpha tubulosa in brakish mixed sewage feed fisheries from Sunderban West Bengal, K. R. Naskar and S. C. Santra , 1985, J. Indian Soc. Coastal Agric. Res. 5 (2), 471-472.
31. Algal flora of Midnapore, West Bengal (India), U. Pal and S. C. Santra, 1985, Phykos, 24, 12-17.
32. Phytological studies of polyene antibiotic A-435, S. C. Santra and A. L. Chandra, 1985, Ind. J. Mycol. Res. 23 (2), 69-72.
33. Floristic composition of industrial Wasteland in Southern Bengal , India, A. K. Sahu and S. C. Santra, 1985, J. Econ. Tax. Bot., 8 (2), 301-306.
34. Leaf inhabiting blue green algal flora of West Bengal, U. Pal and S. C. Santra, 1986, Ind. Journal of Botany, 9 (2), 176-176.
35. Studies on Enteromorpha tubulosa in brakish mixed sewage fed fisheries from Sunderbans, West Bengal, K. R. Naskar and S .C. Santra, 1986, Sci. and Cult. 32 (6), 210.
36. Algal flora of Murshidabad district, West Bengal, I-A survey from Berhampore and adjoining areas, T. K. Pal, T. K. Adhya and S. C. Santra, 1986, Bull. Bot. Soc. Bengal, 40, 30-43.
37. Importance of Phytoplankton study in the Assessment of water quality - a case study from Bhagirathi - Hooghly river basin, U. C. Pal, G. Bandopadhyaya and S. C. Santra, 1986, Proceedings, All India Seminar on Water Quality in and around Urban ecosystems and their management (Eds. K. S. Unni.), 1- 4.
38. Air pollution, Plants and Bio-monitoring of air pollutants, S. C. Santra, 1987, Intra Science, 2 (4), 107-116.
39. Some new records of Charophytes from West Bengal, U. C. Pal and S. C. Santra, 1987, Indian Biol., XIX (2) 25-29.
40. Trends in algal research in India, S. C. Santra, 1987. Proc of the Nat. Seminar on recent trends in plant Science research (Eds. Bhattacharya), 184-187.
41. Algal flora of Saline habitats of Sunderbans, West Bengal and its possible role in reclamation of soil, H. Maity, G. Bandopadhyay and, S. C. Santra, 1987, J. Indian Soc. Coastal Agric. Res. 5 (1), 325-331.
42. Utilisation and Evaluation of efficacy of Azolla-Anabena system for crops in West Dinajpore, D. Desarkar, S. Dutta and S. C. Santra, 1987, J, AASM Biophys. Res. Cent. I, 39-40.
43. Some new additions of some algal flora of West Bengal, U. C. Pal and , S. C. Santra,1987, J. Indian Bot. Soc., 66, 366-369.
44. The changing Environment and responses of the living system, S. C. Santra, 1987, IGA Review, 8, 1-4.
45. Algal Allergy, S. C. Santra, 1987 in Atmospheric Biopollution (Eds. N. Chandra), Env. Pub. , 159-166.
46. Airborne algae of Calcutta Metropolis, S. C. Santra, 1987, Phykos, 71-74.
47. Plant Biochemical responses and Biomonitoring of air pollution, A. K. Sahu and, S. C. Santra, 1988, in Environmental Management and Planning, (Eds. A. K. Sen), Wiley Eastern Public., 285-290.
48. Response of Trichome and Stoma to polluted environment in Eupatorium odoratum Linn., A. K. Sahu and, S. C. Santra, 1988, Res. J. Pl. Environ., 4 (1), 65-68.

49. Marine algae of Mangrove delta region of West Bengal, India: Benthic forms, S. C. Santra and U. C. Pal, 1988, Indian Biologists XX (2), 31-41.
50. Some new records of Indian Trentepohliaceae, S. C. Santra, 1988, J. Indian Bot. Soc., 67,65-66. ISSN: 0019-4468.
51. A check list of algal flora of Sundarban delta of West Bengal, India, U. C. Pal, K. R. Naskar and S. C. Santra, 1988, Phykos., 27, 48-53. (ISSN: 0031-8892)
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53. Blue-green algae in saline habitats of West Bengal: A systematic account, S. C. Santra, U. C. Pal and H. Maity, 1988, Biol. Mem., 14(1), 81-108.
54. Physiological and biochemical changes in Yeast resistant to polyene antibiotic A-453, S. C. Santra and A. L. Chandra, 1988, J. Microb. Biotech., 3 (1) 10-17. (I. F. 6.0)
55. Soil-water-plant interrelationship and their role in sustainable Eco-development, S. C. Santra, 1989, In Handbook of Ecodevelopment, School of Fundamental Research, 50-53.
56. Phytoplanktons of Bhagirathi-Hoogly Estuary: An illustrative accounts, S. C. Santra, U. C. Pal, T. M. Das, S. Sen, Rita Saha, S. Dutta and P. Ghosh Dastidar, 1989, Indian Biologist, XXI (1), 1-27. ISSN: 03027554
57. Industrial air pollution and its effect on plant's foliar traits: A case study from West Bengal,India, A. K. Sahu and S. C. Santra,1989, Feddes Repertorium, 100 (34). 177-186. (I.F. 0.03)
58. Studied on phytosociology and physiological variations of plants in the vicinity of polluted habitat, Kuntighat, West Bengal, A. K. Sahu and S. C Santra, 1989, Poll. Res., 8(1), 15-19. ISSN: 02578050
59. Airborne fungal flora in indoor environments of Calcutta Metropolis, India, S. C. Santra and Sunimal Chanda, 1989, Grana, 28, 141-145. I.F. 0.55.
60. Energy plantation in wasteland - feasibility of short rotation forestry programme, S. C. Santra, 1989, Proceedings of National Workshop on Economics of Energy plantation (Eds. Mathur).
61. Conservation of Coastal Resources of India - A future strategies, S. C. Santra, 1989, Proceedings of the 1st International Seminar on "Coastal Environment in Asian Region - Potentialities & problems, 53-58.
62. Algae of midnapore, West Bengal II. Bacillariophyceae, U. C. Pal and S. C. Santra, 1990, Phykos, 29: 74-82. (ISSN: 0031-8892)
63. Fresh water algae of West Bengal, S. C. Santra, 1990, In A Prespective in Phycology (Ed. Rajarow), Prof. M. O. P. Iyenger Cenetenary Celebration volume, Today & Tomorrow's Printers & Publishers, New Delhi-110005, 189-194.
64. Algal flora of mine Environment II Chromite and Iron ore mines, S. C. Santra and U. C. Pal, 1990, Res. J. Pl. Environ. 6(1), 19-26.
65. Algae of midnapore, West Bengal II. Bacillariopgyceae, S. C. Santra and U. C. Pal, 1990, Phykos, 29(1&2): 73-81. (ISSN: 0031-8892)
66. Studies on micromorphology of leaf in relation to mine environment, B. Saha, S. Chakraborty, P. K. Mukherjee and S. C. Santra, 1990, Indian Biologist, Calcutta, XXII (1), 12-16. ISSN: 03027554
67. Structure of plant community around the Industrial complex in West Bengal, India, A. K. Sahu and S. C. Santra, 1990, Mendal, Patna, 7(1), 117-124. ISSN: 09709649
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69. Environmental Deterioration - A case study in Ajodhya Hills, Purulia Dist., West Bengal, D. K. Khan, S. C. Santra, D. Das, C. Mukhopadhyay, S. Dan and R. Pal, 1990, In; Proceedings, National Ecological Development of Waste land, SRF, Calcutta, 133 -135.
70. Air Pollutants and Aeroallergens Interactions, S. C. Santra, S. Gupta and Sunirmal Chanda, 1991, Grana, 30: 63 - 66. I.F. 0.55.
71. Four New Taxa from West Bengal, S. C. Santra and U. C. Pal, 1991, Phykos, 30:1 & 2, 75 - 80. ISSN: 0031-8892.

72. Rice field blue green algae (Cyanobacteria) and its utilisation prospect as biofertilizer in West Bengal, India, S. C. Santra, 1992, Proc. Natl. Symp. Cyanobacterial Nitrogen Fixation, (Ed. B.D. Kaushik), 386 - 389.
73. Air quality monitoring by Lichens - A case study in Calcutta, India, S. C. Santra and S. G. Mitra, 1992, Indian J. Aerobiol. Spl. Vol. 197 - 200. ISSN-0975-3486.
74. Air pollution biomonitoring by Lichens - A case study in Haldia Township, S. G. Mitra, S. C. Santra and K. N. Roychoudhury, 1992, Poll. Res. II (I): 43 - 48. I.F. (3.3) ISSN: 0257-8050.
75. An approach to future Spirulina research, S. C. Santra, 1992, Proceedings of the M.C.R.C., Madras, India.
76. Studies on the effect of copper and cadmium ions on nitrogenase activity of Cyanobacteria, Westiellopsis prolifica Janet, S. Dan and S. C. Santra, 1992, Poll. Res. II (2): 85 - 87. I.F. (3.3) ISSN: 0257-8050.
77. Plant regeneration in Gmelina arborea Linn. Through tissue - I. Selection of media and organogenesis, C. mukhopadhyay, S. C. Santra and P. D. Ghosh, 1992, Proceedings of the National Symposium on 'Plant Sciences in the Nineties, Kalyani University, 1991, 5465 - 470.
78. Phenological studies on aquatic macrophytic plants of lower Gangetic Delta, West Bengal, India, S. K. Ghosh, S. C. Santra and P. K. Mukherjee, 1993, Feddes Repertorium, 104 (1 - 2), 93 - 111. (I.F. 0.03)
79. Strategies for plant adaptation in saline habitats - I: Foliar anatomical changes, A. Brahma and S. C. Santra, 1993, Indian Biologist, XXV, I, 12 - 17. ISSN: 03027554
80. Marine phytoplankton of the mangrove delta region of West Bengal, India, S. C. Santra, U. C. Pal and A. Choudhury, J. Mar. Biol. Ass. India, 1991. 33 (1 & 2), 292 - 307. ISSN: 0025-3146
81. Algal flora of Midnapopre III Desmiddaceae, U. C. Pal and S. C. Santra, 1993, Phykos, 32 (1 & 2). (ISSN: 0031-8892)
82. Ecology of Hooghly estuary, West Bengal (India), S. C. Santra, 1994, in Algal Ecology: An overview (Kargupta & Siddiqui, E.N, Eds.), International Book Distributor, Dehradun, India, 293 - 318.
83. Ecotoxicological studies in aquatic algae: a review, S. C. Santra and S. Dan, 1994, In Advances in Ecology & Environmental Science. Eds. P. C. Mishra et al. Ashish Publishing House, New Delhi, 625-651.
84. Studies on productivity of sewage fed pond ecosystem, S. C. Deb, K. K. Das and S. C. Santra, 1994, J. Env. Biol. 3 (1), 33 - 42. (I.F. 6.0) ISSN: 0254-8704
85. Application of ecological principles in environmental protection in mining areas, S. C. Santra, 1994. In Minerals & Ecology (Banerjee sp. Ed.) Oxford and IBH Publication Co. Calcutta, 411 - 416.
86. Plankton ecology of sewage fed aquatic system in Calcutta, S. C. Deb and S. C. Santra, 1995. In Environment: Change and management (Mohanty R.C. Ed.), Kamlaraj Enterprises, Delhi, 75 - 89.
87. Green belt for pollution abatement, S. C. Santra, 1995. In Advances in Environmental Science and Technology (Trivedy, R. K., Ed.), Ashish Publishing House, New Delhi, 283 - 295.
88. Domestic and municipal wastewater treatment by some common tropical aquatic macrophytes, S. K. Ghosh and S. C. Santra, 1996, Indian Biologist, XXVIII, (1), 47 - 58. ISSN: 03027554
89. Impact of the reed vegetation of wetland in the prospective of economic gain of rural population - a case study in West Bengal, India, S. Ghosh and S. C. Santra, 1995, Asian wetland news., 8, (1), 10 - 11.
90. Environmental hazards due to mining activities - a case study with reference to coal mining, S. C. Santra, 1995. In Modern trends in environmental biology, (Raha, Biswas and Chakraborti eds.), Arihant Publication House, Jaipur, 22 -24.
91. Non-timber products (NTFP) resource of Jalpaiguri Division (West Bengal) and its current status of utilisation: a brief resume, Moumita Roy and S. C. Santra, 1995, Ecol. Env. & Cons. 1 (1 - 4), 101 - 107. ISSN: 0971-765X
92. Limnological characterisation of beels with reference to fish yield in tropics, G. C. Rana, K. K. Sengupta and S. C. Santra, 1996, J. Inland Fish Soc. India, 26 (1), 59 - 66. ISSN, 0379-3435
93. Effect of heavy metal on chlorophyll content and nitrogenase activity of Azolla pinnata R. Br. S. Gangopadhyaya and S. C. Santra, 1996, Pollution Res., 15 (1), 95 - 97. (I.F. 3.3) ISSN: 0257-8050.

94. A practical approach to water pollution control through ecologically balanced wastewater management: a case study from Calcutta, India, S. C. Deb, J. S. Pandey and S. C. Santra, 1996, In Assessment of water pollution (Mishra, S.R., Ed.) A.P.H. Publishing Corporation, New Delhi, 63 - 79.
95. Changes in microbial population in rice field induced by fertilizer application, S. Mondal and S. C. Santra, 1996, Indian Biologist, XXVIII, 64 - 68. ISSN: 03027554
96. Statistical Modules in Road Traffic Noise Analysis: A case study in Calcutta, India, Prasun Das, Debashis Chakraborty and Subhas Chandra Santra, 1996, In proceedings of Sydney International Statistical Congress, Sydney-Australia, July 8-12, 1996, Pp 682-685.
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98. Economic benefits of Wetland vegetation for rural populations in West Bengal, India.S. K. Ghosh and S. C. Santra, 1997, Proceedings of International Conference on Wetlands and Development, Kualalumpur, Entitled Wetlands, biodiversity and Development (Ed.Win Gieseu).119-131.
99. NTFP collection preservation and marketing prospects and problems- a case study in North Bengal region (W.B.), Moumita Roy and S. C. Santra, 1997. Proc. Annual Meeting RCNAEB; JU. 80-87.
100. Perspective of Coastal zone planning and management in Digha coast- S. C. Santra and D. K. Khan. (1997). Indian Journal of Landscape Systems and Ecological Studies, 20 (2), 156-165. ISSN: 0971-4170.
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104. Studies on the effectiveness of different micronutrient formations of planktonic diversity and growth, G. C. Rana. K. K. Sengupta and S. C. Santra, 1996, In current & Emerging trends in Aquaculture, Thomas, P. C. (Ed.) Daya Publishing House, New Delhi-35, 57 - 64.
105. Bioaccumulation of metals in fishes: an in-vivo experimental study of sewage feed ecosystem, S. C. Deb and S. C. Santra, 1997, The Environmentalist, 17; 27-32. (I.F. 0.04)
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109. Urban traffic noise abatement with vegetational barriers, S. C. Santra, D. Chakraborty and B. Roy, 1998, Journal Acoustic Soc. Ind. XXVI (3 & 4), 1 – 10 ISSN: 09733302
110. Survey of Community annoyance due to traffic noise exposure in Calcutta metropolis, D. Chakraborty, S. C. Santra and B. C. Roy, 1998, Journal Acoustic Soc. Ind. XXVI (3 & 4), 39 - 43. ISSN 09733302
111. Heavy metal accumulation in fish: An assessment in sewage fed aquafarm of East Calcutta, India, S. C. Santra and N. Bano, 1998. In Proc. National Seminar on Environmental Biology (Aditya & Halder eds.) Daya Pub. House, New Delhi, 35-38.
112. Phytosuccession in coastal wetland: A case study from Mangrove reclaimed areas of Sundarbans, West Bengal, India, S. K. Ghosh and S. C. Santra, 1999, In Sundarban Mangal (Guabaskhi, Sanyal & Naskar Eds.), Nayaprakash Calcutta, 325 - 339.
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3.	College Botany Practical Vol. I: **S. C. Santra**, T. P. Chatterjee & A. P. Das	New Central Book Agency, Calcutta	1990
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5.	Biology of Rice Field Algae; **S. C. Santra**,	Daya Publishing House, New Delhi	1993
6.	Ecology: Basic and Applied: **S.C.Santra**,	M. D. Publication, New Delhi	1994
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84. CLIMATE CHANGE AND ECONOMICS OF SUNDERBAN – AN ASSESSMENT. **Subhas Chandra Santra. 2014** Seminar on Climate Change and Economics of Sundarban, Held on September 14, 2014Bangiya Arthaniti Parishad (Bengal Economic Association, Kolkata.
85. Phytogeographical and Endemic status of Indian flora. 2014. **S.C.Santra.** In the National Workshop entitled "Taxonomy and Biosystematics of Vascular Plants" to held at Department of Botany, University of Calcutta, 19th July, 2014
86. Global warming impact on crop productivity in climate change environment and crop productivity. S.C.Santra, A. Mallick and A.C.Samal. 2014. Eds. R.S.Sengar Francis & Taylor, pp. 357-384
87. Biodiversity conservation: Genesis of concept. S.C.Santra (2014). Biodiversity and Livelihood: Proc. Nat, Conf, Biod,: pp. 7-16
88. Accumulation of arsenic in biological system – a case study in Bengali Delta. S.C.Santra. (2014). In arsenic in ground water: complexities and challenges ahead in West Bengal. Eds. Abhijit Das, Silpa Nagari Publication. PP 55-78 (ISBN: 978-81-924432-07)
89. A Greenhouse pot experiment to study arsenic accumulation in rice varieties selected from Gangetic Bengal, India. Piyal Bhattacharya, alok C. Samal, and Subhas C. Santra. (2015). Safe and Sustainable Use of Arsenic Contaminated Aquifers in the gangetic Plain, Editors. A.L.Ramanathan, JNU, New Delhi, Abhijit Mukherjee, IIT, Kharagpur, Scott Johnston, SC Univ., Australia, and Bibhas Nath, The

Univ. of Sydney, Australia. pp 285-295. DOI 10.1007/978-3-319-16124-2_16. ISSN: 2349-8080 (I. F. 0.417)

90. Biofertilizer for Bioremediation. Santra, S. C., Mallick, A., and Samal, A. C. (2015). In: Recent Trends in Biofertilizer. Eds. by B.R Pati, & S. M. Mandal, I. K. International Publishers, pp 199-228. ISBN: 978-93-84588-65-6

91. An overview of Indian Patents on Biotechnology. Anusaya Mallick, Subhas Chandra Santra and Alok Chandra Samal. 2015. In Recent Patents on Biotechnology, Ed. by Rongling Wu, 2015, Vol. 9, Issue 3: 1 – 15**.** ISSN (Print): 1872-2083; ISSN (Online): 2212-4012

92. Health risk of fluoride in India – status survey. S.C.Santra. 2016. In Fluorosis and Arsenicosis: A Global Problem (Ed. By Dr. T. Maity, Dr. B.C.Samanta) NECTAR, Kolkata, pp. 24-75. ISBN: 978-93-84241-08-7.

93. Samal, A. C., Mallick, A., Kar, S. and **Santra S. C. (2018)**. Industrial safety, Public health and Environment-A prospective Educational Profile, *Environica*, Vol 2, 2018, p 171-180. [ISBN: 978-93-84106-97-3]. (Third International Conference-Mother earth: Environmental Crisis & Sustainable development).

94. Samal, A., Bhattachary, P., Maity, J.P., Mallick, A., and Santra S. C, (2021). Phytoremediation of arsenic contaminated soil and water through some hyperaccumulator pteridophytic plants. In: The 8th International Congress & Exhibition on Arsenic in the in the Environment, Wageningen, The Netherlands, 07 Jun 2021 - 10 Jun 2021

95. Anusaya Mallick, A. C. Samal, Kausik Mondal and S.C. Santra **(**2023**)**. Climate Change in Indian Perspective and its Mitigation, In: International cenference on Emerging Technology for Environmental Sustainibility (ETES-2023), 24-25 Feb, 2023, Fakir Mohan University, Odisha.

LIST OF RESEARCH PROJECTS:

Sl. No.	Title	Funding Agency	Amount Sanctioned (in lakhs)
	A. Completed Projects		
1.	"Plant colonization on Industrial waste land : survey, ecology and study of biological peculiarities in the reclamation perspectives." (Joint Project with University of Calcutta)	Department of Forest & environment (Govt. of India), 1985-1988.	4.5
2.	"Studies on algal symbiosis with particular reference to Azolla - *Anabaena azollae* Symbiosis".	University Grants Commission, 1989-1992.	2.5
3.	"Studies on the Feasibility of short rotation forestry (SRF) for energy plantation in wasteland".	Department of Non-conventional Energy sources, 1987-1990.	3.5
4.	"Energy Plantation Demonstration Programme".	Department of non-conventional Energy sources, 1988-1989.	0.4
5.	"Studies on the plantonic and benthic algae of the sunderban delta region of Hoogly-Matla estuary with special reference to the bioa6nitoring of water quality".	University Grants Commission 1995-1998.	2.5
6.	"Biotransformation and sink of arsenic from ground water by micro-algal basal biotreatment system".	Rajib Gandhi Technology Mission, 1993-1997.	4.5
7.	"Noise survey of Calcutta and Howrah city".	West Bengal Pollution Control Board, 1994-1996.	1.75
8.	"studies on the biofouling of fresh water mussels in West Bengal".(Jointly with Fresh Water Fishery research Station, Kulia).	DST (West Bengal)1995-1996.	0.70
9.	"Studies on the insect herbivory in the forest of West Bengal".	ICFRE, Dehradun 1997-1990	2.9
10.	"studies on Sunderban benthic algae with reference to their Community Structure phenology and utilization potentialities"	UGC, 2003 - 2006	5.5
11.	"Studies on the effects of infectious fungi on Storage grain using Gamma irradiation and proton beam".	IUC-DAFF, CC (2003 – 2006)	4.5
12.	A comprehensive investigation on arsenic flow in rice ecosystem in arsenic affected districts of West Bengal with a view to develop strategies for selection of appropriate cultivable rice varieties	DoEn, West Bengal (2006 – 2009)	8.9
13.	Investigation on Soil Bacteria in Arsenic Transformation and Mobilization in Arsenic Affected Soils of West Bengal	Dept. of Environment, Govt. of West Bengal (2009-12	4.50
14.	Comprehensive study on radiation induced metal tolerance in fungal strain	UGC-DAE-CRS collaborative Project (2009-12)	10.0
15.	Studies on Trace Element Distribution and their Role in Salt Stress Adaptation in Halophytic Plants of Mangrove Vegetation of West Bengal	UGC-DAE-CRS collaborative Project (2010-1013)	10.0
16.	Pesticide residue analysis in agricultural horticultural and aquacultural materials	UGC-BSR One time grant (2011 – 2013)	7.0

17.	An investigation on arsenic transfer in water soil crop environment in arsenic affected areas of West Bengal, India	Govt. of West Bengal (2012 – 2015)	13.79
18.	DST INSPIRE Student	DST, India	Student fellowship Rs25000/ per month for 5yrs
19.	ENVIS Centre on Environmental Biotechnology	MoEF & CC, GoI (2002- continue)	25 lakhs/year

CONSULTANCY WORK DONE:

List of Selected Environmental Impact Assessments and Special reports

1. Studies on coastal erosion and sand movement
2. In Digha Beach, Midnapur District, West Bengal. Sponsor: Department of Environment, Govt. of West Bengal (1985 – 1987).
3. Preparation of detailed project reports for rural water supply under theTechnology Mission on Drinking water in villages and related water management in Palamau District (Bihar), Bardhaman District (West Bengal) and Sahebgang District (Bihar). Sponsor: Public Health Engineering Department, Govt. of Bihar and CAPART, Govt. of India.
4. Environmental Impact Assessment and formulation of Environmental Management Plan for the proposed Chapri – Sidhes – War copper mineand concentrator plant. Sponsor: Hindusthan Copper Limited (1990 – 1992.
5. Ambient air quality, meterological and noise level monitoring for proposedgas based thermal power project of national thermal power corporation limitedatAgartala. Sponsorl: M/s Ghosh Bose @ Associates (P) Ltd., Calcutta (1990 – 1991).
6. Environmental data generation for expansion of Patpahar dolomite mine, Orissa. Sponsor : M/s M. N. Dastur @ Co. (P) Ltd. (1990 – 1991).
7. Environmental data generation for the proposed development of Maubhandar works of Indian Copper Complex, Bihar. Sponsor: M/s Dames and Moore, Australia (1992).
8. Environmental Impact Assessment /Control Measures for abatement of pollution of Rokhia Gas Thermal Project. Sponsor : Tripura State Pollution Control Board,Govt. of Tripura (1991 – 1993).
9. Environmental Audit of Maubhandar Works of India coppercomplex,Bihar. Sponsor : Hindusthan Copper Ltd (1992 – 1993).
10. Preparation of EIA/EMP for SGBK group of manganese mines and Dubna – Sakradih group of mines, Orissa. Sponsor : Orissa mining corporation Ltd. (1992 – 1994).
11. Preparation of EIA/EMP for Gua Iron ore (mine of IISC),Bihar, Sponsor: Steel Authority of India, Raw materials division (1992 – 1994).
12. Environmental data generation and assessment of Environmental Impact for the proposed fly ash utilisation project of Kolaghat thermal power project of West Bengal , Power Development Corporation Ltd. Sponsor : Electric Power Development Corporation, Japan (1992 – 1994).
13. Regional Environmental Management of Chakdah – Haringhata block of Nadia district , West Bengal. Sponsor : Department of Science and Technology, Govt. of West Bengal ,in collaboration with Kalyani Univdersity (1992 – 1994).
14. Environmental monitoring for the proposed 1million tonnes per year alumina project along with proposed bauxite mines at Kutrumali and Sijimali (Roygada district, Orisssa) of M/s Larsen and Tubro Ltd., Bombay. Sponsor : M. N. Dastur & Company Ltd., Calcutta (1993 – 1994).
15. EIA of Babupur limestone mine (M. P.) & Gatitang Dolote Mine, Orissa, SAIL, 1988

16. EIA of ERPL refinary of Paradeep, Orissa. 1989
17. EIA of Coal mine complex of SAIL of Bihar and Orissa. 1988
18. EIA of Vizak power plants. 1989
19. EIA of KJB pipelines. 1989
20. EIA of Cochin Coimbator-Karwar and Trichi pipelines. 1989
21. EIA of Petrochem and Panipath region. 1989
22. EIA of Ranchi-Paradeep pipelines. 1990
23. EIA of Haldia-Barauni pipelines. 1990
24. EIA of Koyali-Ratlam pipelines. 1990
25. EIA of Green Valley Electronic project, Calcutta. 1995
26. EIA of IOCL pipeline, Gujurat. 1992
27. EIA of ITC Hotel project, Calcutta. 1996
28. EIA of West Bengal Housing Board project, Calcutta. 2000
29. EIA of West Bengal Housing Board project, Howrah 2000
30. EIA of Bolani Iron Ore Mine, SAIL. 2000
31. EIA, Mezia Thermal Power plant, West Bengal, 2005
32. Green Belt Development, CESE, Budgebudge, West Bengal, 2006
33. EIA, Haldia Port Complex, West Bengal, 2006.
34. Koderma Ultra Mega Thermal Power Plant, Ecological Study 2007.
35. Darkasher-Gandheswari Project, Bankura, 2007
36. CESE Haldia Power Plant Ecological Study, 2008
37. Teesta Barrage Project, 2008
38. Biodiversity studies in wildlife patch in Dalma forest, Jharkhand, CESE, 2008
39. Ecological assessment of Birbhum Coal Belt Methane Mining Area, West Bengal, 2008
40. Ecological study of Nayachar Petrochemical Hub,2009
41. Ecological and socioeconomic study of Subarnarekha Barrage Project, Government of West Bengal, 2009
42. Ecological study of Kalyani , Dabur Pharma Limited , 2009
43. Green Belt development in Haldia Energy project 2012
44. CSR of Power Grid Corporation, Subhas gram, 24 PGS (S), 2012

LIST OF Ph. D. SUPERVISED:

Sl. No.	Name	Year of award	Name of the Supervisor	Title of the Ph.D. thesis
1.	Udaychand Pal	1990	Dr. S. C. Santra	Floristic survey of algal flora of Midnapore (W.B.) with particular reference to their utilization.
2.	Amal Kumar Sahu	1990	Dr. S. C. Santra	Studies on the plant communities in the industrial wasteland of southern Bengal, India.
3.	Smt. Beauty Saha	1991	Dr. S. C. Santra & Dr. P. K. Mukherjee (CU)	Ecofloristic survey of plant communities of coal mine dumps in the reclamation perspective.
4.	Chandan Mukhopadhyay	1992	Dr. S. C. Santra & Dr. P. D. Ghosh (KU)	Studies on the growth rate, biomass productivity, water use efficiency and regeneration of plantlets through tissue culture techniques in some tropical tree
5.	Subrata Dan	1993	Dr. S. C. Santra	Biomonitoringof water pollution An ecotoxicological studies using aquatic algae.
6.	Sanghamitra Gangopadhyay	1993	Dr. S. C. Santra	Investigation on thee biology of some symbiotic and epiphytic algae.
7.	Swapan Chandra Deb	1993	Dr. S. C. Santra & Dr. J. S. Pandey (NEERI)	Ecological studies of sewage fed pond to improve the productivity.
8.	Subir Kumar Ghosh	1995	Dr. S. C. Santra & Dr. P. K. Mukherjee CU)	Studies in the ecology of aquatic plant communities in West Bengal, India
9.	Aloke Kumar Branma	1996	Dr. S. C. Santra	An investigation on the plant strategies for adaptation in saline habitat with reference to some plants of tropical mangrove vegetation.
10.	Smt. Nandita Chakravorty	1996	Dr. S. C. Santra & Dr. V. Sugunan (CIFRI)	"Biomonitoring of pollution in Hoogly estuary through plankton species diversity".
11.	Satyagopal Mitra*	1996	Dr. S. C. Santra & Dr. B. Pati (VU)	Ecological studies of lichens with special reference to air pollution biomonitoring.
12.	Ganesh Rana	1997	Dr. S. C. Santra	Limnological studies of fresh water oodles in the perspective of scientific culture fisheries management
13.	Debashis Chakravorty	1997	Dr. S. C. Santra & Dr. Biva Roy (Bose Institute)	Studies on road traffic noise and its impact on community responses and planning for future noise reducting in Calcutta metropolis.
14.	Moumita Roy	1997	Dr. S. C. Santra	Study of the status of NTFP availability & utilization in forest of North Bengal (India) with special reference to its ecological impact or local environment.
15.	St. Edward Kabir*	1997	Dr. S. C. Santra & Dr. A. P. Das (NBU)	Studies in the effect of climate and nutrients on related physiological and Biochemical parameters of some tea (*Camellia sinemis*)
16.	Ananda Banerjee	1998	Dr. S. C. Santra	Studies of planktons of rivers in mangrove delta region of West Bengal, India
17.	Gopa Bhar	1998	Dr. S. C. Santra	An investigation on the removal of arsenic .from ground water by microbial system.
18.	Sumana Mazumder	1998	Dr. S. C. Santra & Dr. K. K. Sengupta (Fishery, WB)	Studies of effect of environment factors on growth, survibility, reproduction and pearl production of fresh water mussels (LameIliae marginalis).
19.	Santanu Saha	1998	Dr. S. C. Santra	Ecological studies on different types of high altitude temperate vegetation in the Meghma-Tonglu region of Darjeeling hills, WB (India)

20.	Sumita Patra	1998	Dr. S. C. Santra	Toxicological studies on biota using paper mill waste water.
21.	Baisakhi Bandyopadhyay	2000	Dr. S. C. Santra	Morphological, Biochemical & Cytological investigation of different plant species under tribe Phaseolae of Indian Fabaceae.
22.	Mrinmoy Munshi*	2001	Dr. S. C. Santra & Dr. S. Lahiri (JU)	Biochemical and Enzymology studies on plant system in the perspective of air quality monitoring
23.	Kanta Pal	2001	Dr. S. C. Santra & Dr. D. K. Khan (KU)	Coastal tourism in Digha region of West Bengal with special reference to environmental problems, future developmental prospect and management plan.
24.	Manisa Deb	2002	Dr. S. C. Santra	Studies on a coastal creek ecosystem with special consideration, of energetic, trophic status, productivity, and biodiversity changes.
25.	Aariz Aftab	2002	Dr. S. C. Santra	Studies on carrying capacity assessment of Haldia Industrial Complex, W. B (India)
26.	Indrani Choudhury	2005	Dr. S. C. Santra & Dr. M. Chakrabarty (SAAC)	Environmental status evaluation of agroecosystem of South 24 Parganas district, West Bengal using Remote sensing and GIS Techniques.
27.	Alok Chandra Samal	2005	Dr. S. C. Santra	An Investigation on Accumulation of Arsenic in Ecosystem of Gangetic West Bengal And Assessment of Potential Health Risk
28.	Joy Mukhopadhaya		Dr. S. C. Santra & Dr. S. Bhattacharya (Asutosh College)	Ecological Studies on *Anopheles Stephensi* with special reference to Epidemiology of Malaria in Calcutta
29.	Suman Das	2006	Dr. S. C. Santra	Studies in Bioremediation of Waste Water in Perspective of Reuse in Agriculture and Aquaculture.
30.	Sukalyan Chakraborty	2006	Dr. S. C. Santra	Biochemical and Enzymatic Analysis of Benthic Algae of Sunderbans, West Bengal.
31.	Jyoti Prakash Maity	2006	Dr. S. C. Santra Dr. A. Chakraborty (UGC-DAE, CSR)	Studies on Radiation Induced Effects on Fungal Population Infesting Stored Grain
32.	Rajarshi Mitra*	2007	Prof. S. C. Santra Prof S. Hazra (JU)	Assessment of Environmental Change and Sustainability at the Bhitarkanika National Park and Adjacent Coastal Areas of Orissa, India
33.	Mousumi Pal	2007	Prof. S. C. Santra Dr. Nitai Kundu, (IESWBM)	Environmental management of 'Peri-Urban interface' using space borne data and GIS: A study of East Kolkata Peri-Urban ecosystem.
34.	Partha Sarathi Ghosh	2007	Prof. S. C. Santra	Studies on the changing vertebrate faunal diversity in urban environment: A case study in Calcutta
35.	Arindam Datta	2007	Prof. S.C.Santra Dr. T.K.Adhya (CRRI)	Mitigation of Green house Gas Emission from Tropical Rice Ecosystem
36.	P. Chaudhuri	2007	Prof. S.C. Santra	Studies on Fungal Bio-diversity of mangrove vegetation of West Bengal, India
37.	Sandeep Kar	2008	Prof. S.C.Santra	Assessment of air borne particulate distribution and their accumulation in tree canopies of urban environment in the perspective of identification of tolerant plants suitable for green belt development
38.	Bikash Ranjan Mahato*	2008	Prof. S.C.Santra Prof. Amitava Gangaopadhyay (JU)	Constructed wetland as an improvement strategy over conventional and other low cost treatment systems of municipal wastewater – a case study in Indian condition.
39.	Nandini Gupta	2009	Dr. S. C. Santra	Environmental concern of wastewater irrigation

			Dr. D. K. Khan	– a case study in sewage-fed agricultural practices in Titagarh , North 24 Parganas , West Bengal.
40.	Rakhi Roy	2009	Dr. S. C. Santra Dr. Bijan Kr. Biswas (ZSI)	An investigation on spider fauna of Sunderban, (West Bengal) with special reference to their habitat ecology and feeding behaviour in the perspective of pest management.
41.	Bidhan Roy	2009	Dr S.C.Santra	Biological investigation on some herbivorous insect pests of plantation forests in West Bengal, India
42.	Aruna Biswas	2009	Dr S.C.Santra	Medical waste management policy in Bangladesh
43.	Gurmeet Singh*	2010	Dr S.C.Santra and Dr A. L. Ramanathan (JNU)	Nutrient dynamics in the buffer zones of the sunderban mangrove ecosystem, India
44.	Anindita Mitra	2010	Dr S.C.Santra and Dr Joydeep Mukherjee (JU)	Bioprospecting of marine actinomycetes of the Indian Sunderban
45.	Subarna Bhattacharya*	2010	Dr. S.C.Santra and Dr. S. Dutta, (JU)	Studies on mercury status in urban ecosystem and assessment of microorganisms in bioremediation
46.	Piyal Bhattachaya	2011	Dr S.C.Santra	Studies on arsenic bioaccumulation on rice system and its possible consequences
47.	Lakshmi Ganesan	2011	Dr. S.C.Santra & Dr R. A. Khan (ZSI)	Diversity and ecology of zooplankton in some select wetlands of south-east West Bengal
48.	Indranil Sadhukhan	2011	Dr. S.C.Santra & Dr K.M.Agarwal (IISWBU)	Study on evaluation of opportunities and risk of operationalzing the industrial ecology concept – A niche for sustainable development
49.	Merina Ghosh*	2012	Prof. S.C.Santra & Prof. D.K.Paul (VU)	A remote sensing and GIS approach for mapping of arsenic contaminated area of District North 24 Parganas, West Bengal, India for Management of Water use Pattern
50.	Shaoli Majumder	2012	Prof. S.C.Santra and Dr. N.K.Jana (Charuchandra College)	Elemental profile and physiological response of epiphytic lichen, parmelia caperata, exposed to air pollutants: an approach towards passive monitoring of air pollution in Kolkata, India
51.	Amrita Saha	2012	Prof. S.C.Santra	Biochemical and molecular characterization of bacterial consortium of municipal solid wastes
52.	Satabdi Banerjee	2014	Prof. S.C.Santra	Investigation of soil bacteria in Arsenic transformation and mobilisation in arsenic affected soils of West Bengal
53.	Jayjit Majumder	2014	Prof. S.C.Santra	Investigation on microbial interaction in elemental cycling at estuarine environment-Sundarban, India.
54.	Suman Sengupta	2014	Prof. S.C.Santra and Dr. Arindam Bhattacharya, CU	Regulation of transforming growth factor – β in breast cancer
55.	Kaushik Mukherjee	2014	Prof. S.C.Santra	An investigation on the effect of some heavy metals on soil mycoflora of urban environment
56.	Rumpa Das*	2014	Prof. S.C.Santra Netaji Subhas Open University	Investigation on Ecotourism planning and management in Indian Sundarban
57.	Syamalina Goswami	2014	Prof. S.C.Santra	Studies on water availability and landuse pattern in the Burdwan District of West Bengal in the perspective of comprehensive area development management
58.	Anirban Biswas	2014	Prof. S.C.Santra	Environmental arsenic exposure and biomarkers evaluation in human of some arsenic prone area of Nadia district, West Bengal, India
59.	Debarghya	2014	Prof. S.C.Santra	Studies on distribution of heavy metals in water,

	Chakraborty			sediment and biota in coastal areas of Sunderbans and its potential risk in the environment
60.	Dipanwita Das	2015	Prof. S.C.Santra Dr. A.Chakraborty	Comprehensive Study on Gamma Radiation Induced Metal Tolerance in Some Fungal Strains.
61.	Subhajit Bhar	2016	Prof. S.C.Santra Dr. M. Sudarshan	Studies on trace element distribution and their role in salt stress adaptation in halophytic plants of mangrove vegetation of West Bengal
62.	Soumi Pyne	2016	Prof. S.C.Santra	Assessmennt of Arsenic and other toxic heavy metals in irrigated crops and vegetables grown in arsenic affected areas of West Bengal
63.	Debojyoti Moullick	2017	Prof. S.C.Santra	Evaluation of effectiveness of seed priming technology with selenium Se in rice under arsenic As stressed condition
64.	Amrita Chaudhury	2017	Prof. S.C.Santra	Biochemical and molecular Characterization of bacterial consortium of Municipal solid wastes

* Candidates obtained Ph.D. degree from other university under joint supervision of Prof. S.C.Santra