



Mrs. Bedatrayee Saha
Assistant Professor

Contact Detail

Office: Civil Department, D-Block 3rd Floor

Email: bedatrayee05@gmail.com

Date of Joining: 22/03/2013

Nature of association: Regular

EDUCATION:

- ✓ B. E. in Civil Engineering from Jalpaiguri Govt. Engg. College, University of North Bengal, West Bengal
- ✓ M.E. in Environmental Engineering from IEST, Shibpur, West Bengal
- ✓ Ph. D. (pursuing) from Career Point University, HP.

AREA OF EXPERTISE:

- ✓ Water Supply Engineering
- ✓ Sewerage & Sewage Treatment
- ✓ Hydrology
- ✓ Industrial Wastewater Treatment
- ✓ Solid Waste Management

EXPERIENCE

- ✓ **Academic/Teaching:** 10 years
- ✓ **Industry:** 4 years

List of Research Publications in Conferences:

1. 'Evaluation of Saturation Indices for Corrosion & Scaling for Water Distribution System', 2nd International conference on 'Emerging scenario of Science, Technology and Innovation 2023', Career Point University, Hamirpur, HP.

List of Short-Term courses/Workshops/Conferences organized:

1. One week TEQIP II sponsored Faculty Induction Training Programme at JNGEC Sundernagar from 2nd – 6th August, 2014 as organizing committee member.
2. One week TEQIP II sponsored Faculty Induction Programme on Outcome based Education at JNGEC Sundernagar from 19th – 23rd October, 2015 as organizing committee member.
3. Two days TEQIP II sponsored National Conference on Innovation Without Limits in Civil Engg. at JNGEC Sundernagar on 18th & 19th march 2016 as organizing secretary.
4. One day TEQIP II sponsored Workshop on “Advances in sustainable infrastructure planning and development” at JNGEC Sundernagar on 14th September 2016 as 2015 as organizing committee member.

5. One day TEQIP II sponsored Workshop on “Urban Infrastructure Development” at JNGEC Sundernagar on 15th February,2017 as organizing committee member.
6. One day TEQIP III sponsored workshop on Landslides-Issues and Remedial measures at JNGEC Sundernagar on 24th February, 2018 as organizing committee member.
7. One day TEQIP III sponsored workshop on Latest Trends in Civil Engineering at JNGEC Sundernagar on 7th September 2019 as organizing committee member.
8. Webinar on Atal Tunnel Project by Er. Rajesh Arora, Project manager, SMEC Ltd. on 17/05/2021 as Patron.
9. Webinar On Career Opportunities after B. Tech. by ACE Engg. Academy on 25/05/2021 as Patron.
10. Webinar on ‘Building Bye-laws & Regulations’ by Er. Pradeep Thakur, Town & Country Planner, HP Town & Country Planning Department, Nahan on 30/05/2021 as Patron.
11. Webinar on Use of Trenchless Technologies for Underground Pipeline Renewal by Dr. Vinayak Kaushal, PACP, M. ASCE, Asstt. Prof., Civil Engg Deptt. University of Texas at Arlington, USA on 08/06/2021 as Patron.
12. Webinar on Self Employment, by Dr. Yadvinder Kumar, Entrepreneur Consultant on 07/07/2021 as Patron.
13. Knowledge Sharing Session on 4D Project Management using Bentley Synchro4D software by GKC Consultants OPC Pvt. Ltd., New Delhi on 10th Nov, 2021.

List of Short Term courses/Workshops/Conferences attended:

14. One day TEQIP II sponsored Workshop on “Industry Academia Collaboration Projects” at JNGEC Sundernagar on 10th October 2013
15. One week TEQIP II sponsored STC on Matlab Fundamental & Simulink for System & Algorithm Modelling & Optimization Techniques in MATLAB at JNGEC Sundernagar from 6th -10th January, 2014.
16. One day MHRD sponsored workshop on NMEICT Awareness at NIT Hamirpur on 12th July 2014
17. One week TEQIP II sponsored Faculty Induction training Programme at JNGEC Sundernagar from 2nd – 6th August, 2014
18. One day TEQIP II sponsored National Workshop on Renewable Energy at JNGEC Sundernagar on 22nd November 2014
19. Two days International Symposium on Communication & Distributed Systems(COMSYS’14) on 15th & 16th December 2014
20. One week TEQIP II sponsored Faculty Induction Programme on Outcome based Education at JNGEC Sundernagar from 19th – 23rd October, 2015
21. One week AICTE recognized STC on NBA accreditation & Quality management Through ICT by NITTTR Chandigarh from 24th – 28th August, 2015
22. Section Annual Convention on Challenges of Technical Education in Nation Building at NIT Hamirpur on 30th sept & 1st Oct, 2015
23. GIAN Course on Characterizing the uncertainties in climate change impacts assessment for water resources at NIT Hamirpur from 22nd- 26th February 2016
24. One day TEQIP II sponsored workshop on Office Procedure, Conduct & CCA Rules at JNGEC Sundernagar on 1st July 2016
25. Two days TEQIP II sponsored National Conference on Innovation Without Limits in Civil Engg. at JNGEC Sundernagar on 18th & 19th march 2016
26. Five days TEQIP II sponsored workshop on Recent Advancement in Energy Harvesting & water treatment technologies at Jadavpur University, Kolkata from 13th – 17th June 2016
27. One day TEQIP II sponsored Workshop on “Advances in sustainable infrastructure planning and development” at JNGEC Sundernagar on 14th September 2016
28. Five days Training programme on Stress management at workplace for working women executives organized by national Productivity Council, New Delhi at Goa from 16th - 20th Jan 2017
29. One day TEQIP II sponsored Workshop on “Urban Infrastructure Development” at JNGEC Sundernagar on 15th February,2017

30. Two days TEQIP II sponsored faculty Development Programme on Teaching Learning Practices for Quality Education at JNGEC Sundernagar on 17th & 18th March 2017
31. Three Days TEQIP III sponsored Training Workshop for faculty-mentors on Induction programme for New students by NPIU, MHRD at PEC Chandigarh from 22nd to 24th September 2017
32. One day TEQIP III sponsored workshop on Landslides-Issues and Remedial measures at JNGEC Sundernagar on 24th February, 2018
33. Two days TEQIP III sponsored Workshop on “Outcome Based Accreditation for Undergraduate Engineering Programs” at JNGEC Sundernagar on 12th & 13th March 2018
34. One week TEQIP III sponsored STC on Statistical Methods in Research methodology organized by PEC Chandigarh at JNGEC Sundernagar from 4th -8th June 2018
35. Seven days AICTE organized Faculty Development Program for Student Induction at Saint Longwal Institute of Engineering & Technology, Punjab from 20th -26th July 2018
36. Training of master Trainers Programme on Earthquake Resistant Construction Practices Organised by State Council on Climate Change, Shimla, HP & CBRI, Roorkee. at CSIR-CBRI, Roorkee from 10th -14th June 2019
37. One day TEQIP III sponsored workshop on Latest Trends in Civil Engineering at JNGEC Sundernagar on 7th September 2019
38. Two Weeks AICTE approved & TEQIP III sponsored Faculty Development Programme on “Life Skill Development’ at JNGEC Sundernagar, from 2nd -11th January 2020.
39. Webinar on Vision towards Sustainable Concrete (webinar) Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 11th May, 2020
40. Webinar on Water Treatment – Advanced Oxidation Process (webinar) Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 12th May 2020
41. Webinar on Post COVID-19: Precautions in Construction (webinar) Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 13th May 2020
42. Webinar on Emerging Trends in Make Shift Structures(webinar) Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 14th May 2020
43. Webinar on Fire Safety in Structures(webinar) Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 15th May 2020
44. Webinar on Satellite Monitoring: Way for an Efficient Irrigation Organised by Deptt. Of Civil Engg. KPRIET, Coimbatore on 16th May 2020
45. Two days TEQIP III national webinar on Leveraging Digital initiatives of NMEICT, MHRD and online Examination During COVID 19 by HPTU, NPIU & Dr. Babasaheb Ambedkar Technological University Maharashtra on 23rd & 24th May 2020
46. Webinar on Advances in Building Technology organised by CBRI Roorkee on 1st -5th June 2020
47. One day TEQIP III workshop on Landslide monitoring by Using Sensor and Wireless Technique by Dr. Uday kala, Assistant Professor, Deptt. Of Civil Engg. IIT Mandi at JNGEC Sundernagar on 18th June, 2020
48. Three Days Online FDP on Recent Advancements in Civil Engg. by Deptt. Of Civil Engg. KPRIET, Coimbatore on 24th -26th June 2020
49. One-day WEBINAR ON BEST PRACTICES FOR PLANNING AND DESIGN OF SAFER ROADS" organised by Deptt. Of Civil Engg., KKR AND KSR Institute of Technology and Sciences, AP on 2nd July 2020
50. Webinar series 3.0 on Sustainable Buildings and Future Technologies organised by CSIR-CBRI Roorkee from 13th -17th July 2020
51. AICTE sponsored online STC program on Disaster Management and Mitigation(Phase-I) organised by Dr. N.G.P. Institute of Technology, Coimbatore from 3rd – 8th August, 2020
52. Two weeks AICTE sponsored STC Programme (online) on “INDUCTION PROGRAMME PHASE I” organised by NITTTR Bhopal from 10th – 21st August 2020
53. Webinar on Design Trends in Concrete organized by UltraTech Cement Ltd. & Indian Concrete Institute-Ghaziabad Centre on 17th April 2021
54. Webinar on Sustainable construction- code based approach organized by UltraTech Cement Ltd. & Indian Concrete Institute-Ghaziabad Centre on 24th April 2021
55. Webinar on Advanced Course on Green Building Materials organised by CBRI Roorkee on 26th -28th April 2021

56. One-day Online Workshop on "Research Methodology' by Sri Vidyaniketan Engg College, Tirupati on 22nd May 2021
57. Webinar on Advances in rapid construction organised by CBRI Roorkee on 27th & 28th May 2021
58. Webinar on Water & wastewater treatment technologies by Deptt of CE, Dr. NGP Institute of Technology, Coimbatore & IWWA Mumbai on 12th June 2021
59. Online FDP on Thrust areas of Research in Civil Engg. (phase II) Deptt. Of Civil Engg. KPRIET, Coimbatore on 14th -19th June 2021
60. AICTE sponsored ATAL online FDP on Disaster Resilient Infrastructure organised by Deptt. Of Civil Engg., University Institute of Technology, Himachal Pradesh University, Shimla from 9th – 13th August, 2021
61. One Week AICTE QIP Sponsored Short Term Course on Energy Efficient and Innovative Building Construction Practices by NITTTR Chandigarh on 23rd -28th August 2021.
62. One week online FDP on "Water Resource Management" from 7-11 March, 2022 organized by Civil Engineering Department, NITTTR Chandigarh.
63. AICTE Recognized Faculty Development Programme 2 weeks on Refresher Course in Engineering Physics from 14th – 25th November 2022 by NITTTR, Chandigarh.
64. AICTE Recognized Faculty Development Programme 2 weeks on Advanced Pedagogy from 6th – 17th February 2023 by NITTTR, Kolkata.

Information related to Consultancy:

1. Testing of materials for HPMC Jarol Construction

Any other achievements:

1. Held different responsibilities in Department of Civil Engineering i.e. departmental Academic Coordinator, Departmental Counsellor, Incharge of Environmental Engg. Lab, Project & Seminar Coordinator etc. Dept. of CE.
2. Officer In charge in Civil Engg. Department from May 2021 to November 2021.
3. Holding various institute level committee member position like Environmental Management Framework (TEQIP_III), Timetable Incharge, Library committee member, 1st year Induction Committee as Mentor, TWASK Committee Chairman & member, Sports Meet Committee member.
4. Video lectures uploaded on You-Tube channel for Technical Subjects (<https://www.youtube.com/watch?v=1r4sGlsZOag>)
5. Delivered lecture in "Training of Masons, Carpenters and Bar Binders at Disaster Management Authority Bilaspur", held on 4th Dec 2019 on the topic "Hazard Risk Resistant Construction".
6. Conducted Essay Writing Competition under Civil Engg. Society and EMF under TEQIP III in 2019.
7. Conducted Shramdan Activity at Institute level under EMP under TEQIP III in 2019.
8. Question Paper setter for Himachal Pradesh Technical University & Himachal Pradesh University.
9. Answer Script Evaluator for Himachal Pradesh Technical University.
10. External Practical Examiner for Other Colleges/University.
11. Training & Placement Coordinator in Civil Engg. Department from 2014 -2016.