

Dr. Bandita Naik
Associate Professor
Civil Engineering Department
Methodist college of Engineering
Hyderabad , India -500001
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EDUCATIONAL QUALIFICATION

- Completed M.Tech and Ph.D. from Department of Civil Engineering with specialization water Resources Engineering in NIT Rourkela in the year 2017(1st April).
- Completed B.Tech in Civil Engineering from GKCET, Berhampur with 76.45% in the year 2005.
- Completed +2 Science (Council of Higher Secondary Education, Orissa) securing 71.44% in the year 1999.
- Completed 10th standard (Board of Secondary Education Orissa) securing 80.8% in the year 1997.
- Completed Post Graduate Diploma in Geo-Spatial Technology Applications in Rural Development(PGDGARD) at Centre for Post Graduate Studies and Distance Education - NIRD & PR Hyderabad in the year 2020

PROFESSIONAL EXPERIENCE

- Working as Associate Professor in Methodist college of Engineering Hyderabad from Feb 1 2019 to till date
- Worked as Resources Person at CAPGS BPUT Rourkela From Aug 1 2017 to Jan 31 2019
- Worked as Teaching Assistant for various UG and PG courses at NIT Rourkela during Ph.D. program.
- Worked as Sr. Lecturer in CITY Institute of Technology Rourkela, Odisha from Sep 2009 to Dec 2011.
- Worked as Lecturer in Kalinga Institute of Mining &Technology Anugul, Odisha from Aug 2006 to Aug 2009.
- Worked as Resource Person in JES Jharsuguda from August 2005 to August 2006.

THESIS IN Ph.D.

Ph.D. Project Title : Flow Analysis of Compound Channels with Converging Floodplain Under UK-INDIA Project

Supervisor: Prof. K. K. Khatua , Associate Professor, NIT Rourkela

ACHIEVEMENTS / AWARDS

- Summer Research Programme at as Research Associate - Department of Civil and Environmental Engineering at the University of South Carolina, USA effective June 26th – Aug 19th, 2013
- Young Scientist Travel Grant -DST (EPFL, Switzerland) vide no. SERB/F/7749/2014-15 .
- Researcher at University of LEEDS, University of Birmingham and Center for Ecology and Hydrology in Wallingford (UK) as a part of UKIERI project (UK-India Education and Research Initiative program) between NIT Rourkela and University of LEEDS 2014.

CONFERENCES AND SHORT TERM COURSES PRESENTED / PARTICIPATED

1. 1) National Conference presented

- Presented a paper on “Water Surface Profile Computation In Non-prismatic Compound Channels” at ICWRCOE 2015, International conference on water resources, coastal and ocean engineering (March 12-14, 2015) Organized by National Institute of Technology, Suratkal, India
- Presented a research paper on “Flow analysis for a converging compound channel” at SITCEE – 2014, 2nd International Conference On “Sustainable Innovative Techniques In Civil and Environmental Engineering” On 4th and 5th January, 2014 at JNU, New Delhi.
- Presented a research paper on “Energy losses in a converging compound channel” at Hydro-2013 International, Conference on Hydraulics, Water Resources, Coastal & Environmental Engineering, 4-6 Dec 2013, Organised by IIT Madras, Chennai 600036, India
- Presented a research paper on “Review Paper” “Critical appraisal of various techniques used for flow modeling in non-prismatic compound open channel flow” at 2nd International Science Congress (ISC-2012), 8th – 9th December 2012, At- Bon Maharaja Engineering College, Vrindavan, Mathura, UP, India

2) National Conference participated

- **Participated as coauthors of six papers on Hydro-2019 International**, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18-20 December 2019, Organized by Department of Civil Engineering UCE, Osmania University, Hyderabad
- **Participated Hydro-2015 International**, 20th International Conference on Hydraulics, Water Resources and River Engineering, 17-19 December 2015, Organised by Department of Civil Engineering IIT Roorkee, India-247667

B. International Conference

- Presented a Research Paper on “Energy loss along the non-prismatic reach of a compound channel using ANN”, at the 7th International Conference on Fluvial Hydraulics in Lausanne, Switzerland from Sep 3 to 5, 2014 and also visited to the Laboratory of Hydraulic Constructions (LCH), EPFL Switzerland during the weeks.

C. Short term course / Workshop/FDP

- Participated in One Week Faculty Development Programme on "Open Source Tools for Research" from June 08 - June 14, 2020 which was conducted by Teaching Learning centre Ramanujam College Delhi University sponsored by MHRD.
- Participated in Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0" from May 18 - June 03, 2020 which was conducted by Teaching Learning centre Ramanujam College Delhi University sponsored by MHRD.
- Participated in One Week Online AICTE MARGDARSHAN FDP on Art of Writing Papers and Research Methodologies during 07 - 13 May 2020 organised by GOKARAJU RANGARAJU Institute of Engineering and Technology
- Attended various webinar related Journal Publications, Patent Publication, various analytical software training like GIS and R, Advances in Biomass Energy Technology, Climate change, Environmental Protection organized by various institutes during COVID 19 pandemic situations
- Participated in various online quizzes conducted by various institutes related to Remote sensing and GIS, Water resources Engineering, Environmental Protection during the COVID 19 pandemic situations

- Participated in the online course on “Basics of SAR Remote Sensing” which was conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, during 26-05-2020 to 30-05-2020
- Attending the Faculty Development program on "Industry Perspectives in Civil Engineering" conducted on 31st July 2019 conducted by TASK Hyderabad
- Participated on two day All India Seminar on “Digital Technologies in Surveying, Mapping and Applications” at The Institute of Engineers India , Telangana State Centre in association with Geomap Society , Hyderabad from 15-16 October , 2019.
- Participated on one day Seminar on “Water Solutions for Smart Governance” at The Institute of Engineers India , Telangana State Centre in association with Theama Technologies , Hyderabad on date 4th June , 2019.
- Participated on one day Seminar on “Air Pollutions and its impact on safety and health at work” at The Institute of Engineers India , Telangana State Centre, Hyderabad on date 30th March , 2019.
- Participated one day “International Symposium on River flow 2016” at Civil Engineering Department NIT Rourkela on 5th February 2016
- Participated one week short term course on “Flow measurements and Modelling in Water Resources Engineering” at Civil Engineering Department NIT Rourkela from 23 Sep to 28 Sep 2014
- Participated two day Seminar on “Aesthetics of Scientific Documentation” Computer Science and Engineering Department , NIT Rourkela from 16-17 July 2014.
- Participated one week short term course on “Advanced in Water Resources Engineering” at Civil Engineering Department NIT Rourkela from 7-12 May 2012
- Participated one day Workshop on “Climate change” at NIT Rourkela on 11th march 2012

D. International Presentations

- Flow modeling for Converging Compound Channel ,University of South Carolina, Columbia, USA during July, 2013
- Flow Analysis of Compound Channels with Converging Floodplain, University of LEEDS, UK, Nov 2014

PUBLICATIONS

International Journals

Scopus Citations 2 , h-index = 5

Google scholar citations = 137, h-index = 8, i10-index=5

SCI & SCOPUS

1. B.Naik¹, E.Padhi² , K.K.Khatua³ . “Flow Prediction of Boundary shear stress and Depth average velocity of a Compound channel with Narrowing floodplain” , **Iranian Journal of Science and Technology, Transactions of Civil Engineering (Springer)**, DOI <https://doi.org/10.1007/s40996-018-0105-4> , 2018
2. B.Naik¹, K.K.Khatua² , N. G. Wright³ , A. Sleigh⁴ . “Stage Discharge Prediction for Converging Compound Channels with Narrow Floodplains” **Journal of Irrigation & Drainage Engineering ASCE** ,Vol. 143(8) (2017) ,DOI: 10.1061/(ASCE)IR.1943-4774.0001184
3. B.Naik¹, K.K.Khatua² " Water Surface profile Computation for Compound channel with Narrow Flood Plains ",**Arabian Journal for Science and Engineering, Springer**, 42(3), 941-955 2017 , DOI: 10.1007/s13369-016-2236-x

- 4 B. Naik¹, K.K.Khatua², E.Padhi³, P.singh⁴. “ Loss of Energy in the Converging Compound Open Channels”, **Arabian Journal for Science and Engineering, Springer** , DOI 10.1007/s13369-017-2963-7 , 2017
- 5 B.Naik¹, K. K. Khatua², Nigel Wright ³, A. Sleigh⁴ & P. Singh⁵ “Numerical modeling of converging compound channel flow” **ISH Journal of Hydraulic Engineering, Taylor & Francis Journals**, Volume 24, Pages 285-297 DOI:10.1080/09715010.2017.1369180
- 6 B. Naik¹, K.K.Khatua². "Boundary shear stress distribution for a converging compound channel ” by **ISH Journal of Hydraulic Engineering, Taylor & Francis Journals** , (2016) ,Volume 22, Issue 2, Pages 212-219
- 7 B. Naik¹, K.K.Khatua², Rahul Sahoo³ and Shiba Shankar Satapathy⁴ , “Flow analysis for a converging compound channel” ,**International Journal of Applied Engineering Research** ,ISSN 0973-4562, Volume 9, Number 2 (2014) pp. 133-138
- 8 S. Banerjee, B. Naik, P. Singh & K. K. Khatua. "Flow resistance in gravel bed open channel flows case: intense transport condition” by **ISH Journal of Hydraulic Engineering, Taylor & Francis Journals** , DOI: 10.1080/09715010.2017.1422189 (2018)
- 9 Prateek Kumar Singh, Sumit Banerjee, Bandita Naik, Arun Kumar & Kishanjit Kumar Khatua.” Lateral distribution of depth average velocity & boundary shear stress in a gravel bed open channel flow” by **ISH Journal of Hydraulic Engineering, Taylor & Francis Journals** , <https://doi.org/10.1080/09715010.2018.1505562>
- 10 Prateek Kumar Singh, Bandita Naik, X. Tang, Kishanjit Kumar Khatua, Arun Kumar & Sumit Banerjee, Models for kinetic energy and momentum correction coefficients for non- prismatic compound channels using regression and gene expression programming by **SN Applied Science (Springer) 2019** <https://doi.org/10.1007/s42452-019-1222-9>
- 11 Manisha Bal , Asit Kumar Dandapat , Bandita Naik, Hydrological modeling with respect to impact of land-use and land-cover change on the runoff dynamics in Budhabalanga river basing using ArcGIS and SWAT model by **Remote Sensing Applications: Society and Environment, Elsevier** ,2021, <https://doi.org/10.1016/j.rsase.2021.100527>

NON SCI

- 1 B. Naik¹, K.K.Khatua². “Water Surface Profile Computation In Non-prismatic Compound Channels” , **Science Direct (Elsevier) Aquatic Procedia** 4 (2015) 1500 – 1507
- 2 Abinash Mohanta¹, Bandita Naik², K.C. Patra³ and K.K. Khatua⁴”. Experimental and Numerical Study of Flow in Prismatic and Non-prismatic Section of a Converging Compound Channel” , **International Journal of Civil Engineering Research**, ISSN 2278-3652 ,Volume 5, Number 3 (2014), pp. 203-210
- 3 Panigrahi¹, K., Khatua, K.K. ² and Naik, B.³ . “Effect of cylindrical staggered vegetation on roughness prediction in an open channel”, **International Journal of Scientific Engineering and Technology**, ISSN: 2277-1581, pp. 207-212 (2014)
- 4 B. Naik¹, K.K.Khatua² and S.S. Dash³”. Review Paper Critical appraisal of various techniques used for flow modeling in non-prismatic compound open channel flow”, **Research Journal of Recent Sciences** ,ISSN 2277-2502, Vol. 2(ISC-2012), 68-75 (2013)
- 5 Dash., S.S.¹ , Khatua, K.K.² and Naik, B.³ “Energy loss for a highly meandering open channel flow” , **International Journal of International Science Congress Association**, 2013

International Conference

1. A.Satapathy¹, A.K. Dandapat², B. Naik³. Mathematical modelling of surface runoff using swat model and arcgis approach of rushikulya river basin, **Hydro-2019 International**, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organized by Department Of Civil Engineering University College Of Engineering, Osmania University, Hyderabad.

2. P.P.Garnaik¹, B. Naik². Analysis and modelling of surface water quality of Bramhani river basin, **Hydro-2019** International, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organized by Department Of Civil Engineering University College Of Engineering, Osmania University,Hyderabad.
3. M.Bal¹, A.K. Dandapat², B. Naik³, Impact of land use land cover change on runoff by using arcgis and swat model approaches in Budhabalanga river basin, **Hydro-2019** International, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organized by Department Of Civil Engineering University College Of Engineering, Osmania University, Hyderabad.
4. S. Behera ¹, B.Naik². Boundary Shear Stress Distribution in Converging Compound Channel Flow Using Artificial Neural Network, **Hydro-2019** International, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organized by Department Of Civil Engineering University College Of Engineering, Osmania University,Hyderabad.
5. P.Mishra¹ , R. Padhee²,B.Naik³.Bivariate Drought Frequency Analysis Using Copula Approach, **Hydro-2019** International, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organised by Department Of Civil Engineering University College Of Engineering, Osmania University,Hyderabad.
6. S.Nayak¹, R.Padhee² , B.Naik³. Bivariate Flood Frequency Analysis Using Mixed Gumbel Method , **Hydro-2019** International, 24th International Conference on Hydraulics, Water Resources and River Engineering, 18 to 20 December 2019, Organised by Department Of Civil Engineering University College Of Engineering, Osmania University, Hyderabad.
7. A.Satapathy, B.Naik, M.Behera and Dr. K.K. Khatua. Experimental study on sediment transport in a meander affected straight channel, **Hydro-2018** International,23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna
8. M. Sahu, S.T. Biswal, and Dr. B. Naik. Loss coefficient of expansion in diverging channel, **Hydro-2018** International, 23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna
9. M.Bal, M.Purnima, Dr. B.Naik, and Dr. S.N.Sahoo. Effect of land use and runoff characteristics in Rourkela city using SWMM5.1, Hydro-2018 International, 23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna
10. Swagatika Biswal, Dr. Bandita Naik, and Dr. K. K. Khatua. Rainfall Runoff Studies Of Brahmani River Basin Using Ann, **Hydro-2018** International, 23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna
11. Arunima priyadarsini patnaik, and Dr. Bandita Naik. Impact of Climate Change on Hydrological Parameters, **Hydro-2018** International, 23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna
12. S. Behera, K. Rout, and B. Naik Loss coefficient for Contraction in Converging Channel, **Hydro-2018** International, 23rd International Conference on Hydraulics, Water Resources and River Engineering, 19 to 21 December 2018, Organised by Department of Civil Engineering NIT Patna

13. Shiba Shankar Satapathy¹, B. Naik², Rahul Sahoo³, K.K.Khatua⁴. Flow Modelling of Boundary Shear Stress Distribution for a Converging Compound Channel using ANSYS , **Hydro-2015 International**, 20th International Conference on Hydraulics, Water Resources and River Engineering, 17-19 December 2015, Organised by Department of Civil Engineering IIT Roorkee, India-247667
14. Bandita Naik ¹, K. K. Khatua², S. S. Satapathy³ . "A multi variable regression model for prediction Water surface profile in a converging compound channels. " , **Hydro-2015 International**, 20th International Conference on Hydraulics, Water Resources and River Engineering, 17-19 December 2015, Organised by Department of Civil Engineering IIT Roorkee, Roorkee, India-247667
15. B.Naik¹, K.K.Khatua². "Water Surface Profile Computation In Non-prismatic Compound Channels" **ICWRCOE 2015** , International conference on water resources, coastal and ocean engineering (March 12-14,2015) Organized by National Institute of Technology, Suratkal, India
16. B.Naik¹, K.K.Khatua² and Shiba Shankar Satapathy³. "Boundary shear stress distribution along the converging floodplain of a non-prismatic compound channel flow" by, **Hydro- 2014 International**, 19th Conference on Hydraulics, Water resources & Environmental Engineering. (Dec. 18-20th, 2014) Organized by Maulana Azad National Institute of Technology, Bhopal India
17. Panigrahi, K¹., Khatua, K.K². and Naik, B³ . "Effect of cylindrical staggered vegetation on roughness prediction in an open channel ", **Hydro-2014 International**, 19th Conference on Hydraulics, Water resources & Environmental Engineering. (Dec. 18-20th, 2014) Organized by Maulana Azad National Institute of Technology, Bhopal India
18. B. Naik¹, K.K.Khatua² and Kamel Miri³ . "Energy loss along the non-prismatic reach of a compound channel using ANN", **River flow 2014**, International conference on Fluvial Hydraulics (Sept 3-5), Lausanne, Switzerland.
19. B. Naik¹, K.K.Khatua², Rahul Sahoo³ and Shiba Shankar Satapathy⁴ . "Flow analysis for a converging compound channel", **SITCEE – 2014**, 2nd International Conference On "Sustainable Innovative Techniques In Civil and Environmental Engineering" On 4th and 5th January, 2014 at JNU, New Delhi.
20. Abinash Mohanta¹, Bandita Naik², K.C. Patra³ and K.K. Khatua⁴. "Experimental and Numerical Study of Flow in Prismatic and Non-prismatic Section of a Converging Compound Channel", **SITCEE – 2014**, 2nd International Conference On "Sustainable Innovative Techniques In Civil and Environmental Engineering" On 4th and 5th January, JNU, New Delhi.
21. B. Naik¹, K.K.Khatua². "Energy losses in a converging compound channel" , **Hydro-2013 International**, 18th Conference on Hydraulics, Water Resources, Coastal & Environmental Engineering, 4-6 Dec 2013, Organised by IIT Madras, Chennai 600036, India
22. B. Naik¹, K.K.Khatua² and S.S. Dash³. "Review Paper "Critical appraisal of various techniques used for flow modeling in non-prismatic compound open channel flow" , **2nd International Science Congress (ISC-2012)**, 8th - 9th December 2012, At-Bon Maharaja Engineering College, Vrindavan, Mathura, UP, India
23. Dash., S.S¹ , Khatua, K.K² and Naik, B.³ "Energy loss for a highly meandering open channel flow", **2nd International Science Congress (ISC-2012)**, 8th - 9th December 2012, At-Bon Maharaja Engineering College, Vrindavan, Mathura, UP, India

National Conferences

- 24 B.Naik¹, P. Singh², K.K.Khatua³. "Different techniques for boundary shear stress predictions for open channel flow", **National Conference on Water Resources and Hydro Power**, June 17-18, 2016, at Civil Engg. Deptt. UPES, Dehradun.

Book Chapters

1. Arunima Priyadarsini, Bandita Naik, Impact of Climate Change on Hydrological Parameters Climate Change Impacts on Water Resources Springer pp 457-468 Part of the Water Science and Technology Library book series (WSTL, volume 98)
2. M. Sahu, S. T. Biswal, B. Naik Loss Coefficient of Expansion in Diverging Channel River Hydraulics pp 405-417 Part of the Water Science and Technology Library book series (WSTL, volume 110)
3. Swagatika Biswal, Bandita Naik, K. K. Khatua Rainfall–Runoff Studies of Brahmani River Basin Using ANN pp 411-421 Part of the Water Science and Technology Library book series (WSTL, volume 109)

Thesis Supervised

M. Tech.	11 Completed
B.Tech.	4 Groups Completed

Reviewer of Different Journals

- Reviewer for ISH Journal of Hydraulic Engineering (SCOPUS Indexed)
- Reviewer for Water Supply IWA Publishing (SCIE Indexed)
- Reviewer in for Journal of Science and Technology
- Reviewer for International Journal of Hydrology Science and Technology (IJHST)

List Of Courses Taught At M.Tech

1. Hydrology
2. Open Channel Flow
3. Intellectual Property Rights
4. Water Resources Planning and Management
5. Computer application to Water Resources Engineering (ANSYS)

List Of Courses Teaching At B.Tech

1. Water Resources Engineering
2. Environmental Engineering
3. Hydrology and Water Resources Engineering
4. Introduction to Climate change

Contribution to Students Welfare and Campus Welfare

- **Faculty co-ordinator**, Methodist college of engineering & technology department of civil engineering
- **Workshops/Seminars Coordinator**, Methodist college of engineering & technology department of civil engineering

- Funding **Applications Coordinator (AICTE/UGC/DST/CSIR/IEI etc)**, Methodist college of engineering & technology department of civil engineering
- Cell Member (NBA) of **Student Chapter & Prof. Societies Committee**, Methodist college of engineering & technology department of civil engineering
- Member of **Department Advisory Committee**, Methodist college of engineering & technology department of civil engineering
- Member of **Project Review Committee**, Methodist college of engineering & technology department of civil engineering
- **Nodal officer NIRE**, Methodist college of engineering & technology

Member of professional bodies

- Member of Institute of engineering Research and Publication
- Associate member of The Institute of Engineers, India bearing membership number AM-151215-6

Reference

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2.Dr. M. V. Ravibabu
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<https://www.16personalities.com/isfj-personality>