**Bibhuti Bhusan Das**

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**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Post-Doctoral Research Associate**, Centre for Innovative Materials Research (CIMR)

Lawrence Technological University, Southfield, Michaigan, USA June 2009 – October 2011

**Doctorate of Philosophy**, Civil Engineering

Indian Institute of Technology (IIT) Bombay, India Graduation: 2007

Dissertation: Some Studies on Determination of Pore Characteristics of Concrete

**Master of Technology**, Civil Engineering (Construction Engineering and Management)

Indian Institute of Technology (IIT) Delhi, India Graduation: May 2004

Thesis: Effect of Age, Curing Period and Strength on Chloride Migration in Concrete

**Bachelor of Technology**, Civil Engineering

Orissa University of Agriculture and Technology, Orissa, India Graduation: May 2001

Senior Year Project: Software Solutions for some Civil Engineering Problems

**WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Associate Professor, National Institute of Technology Karnataka, Surathkal Since May 2018
* Assistant Professor, National Institute of Technology Karnataka, Surathkal Since May 2015
* Center Head, NICMAR INDORE Campus, Indore 2014-2015
* Sr. Associate Professor, NICMAR INDORE Campus, Indore 2014-2015
* Center Head, NICMAR Goa Campus, Ponda, Goa 2012-2014
* Sr. Associate Professor, NICMAR Goa Campus, Ponda, Goa 2012-2014
* Associate Professor (I), KIIT Deemed University, Bhubaneswar, India 2011-2012
* Adjunct Faculty, Lawrence Technological University, Michigan, USA 2009-2011
* Technical Manager, E. I. DuPont India Pvt. Ltd 2008-2009
* Assistant Manager, Central R&D-Cement Business, Grasim Industries 2007-2008
* Research Assistant, Indian Institute of Technology (IIT), Bombay 2004-2007
* Graduate Research Assistant, Indian Institute of Technology (IIT), Delhi 2002-2004

**PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Edited Book:**

1. **Bibhuti Bhusan Das** and Narayanan Neithalath, “Sustainable Construction and Building Materials – Select Proceedings of ICSCBM 2018, **Springer Nature Singapore**. <https://www.springer.com/gp/book/9789811333163>
2. **B. B. Das,** S Barbhuiya, R Gupta and P Saha, “Recent Developments in Sustainable Infrastructure - Select Proceedings of ICRDSI 2019, **Springer Nature Singapore**. <https://www.springer.com/gp/book/9789811545764>
3. S. K. Shukla, S.Chandrasekaran**,** **B. B. Das** and S Kolathayar, “Smart Techniques for Sustainable Development - Select Proceedings of SMTS 2019”, **Springer Nature Singapore**. <https://www.springer.com/gp/book/9789811550003>
4. **Bibhuti Bhusan Das,** Sreejith V. Nanukuttan, Anil K Patnaik and Neena Shekhar Panandikar, “Recent Trends in Civil Engineering – Select Proceedings of TMSF-2019, **Springer Nature Singapore**. <https://www.springer.com/in/book/9789811582929>
5. **B. B. Das**, Christy P. Gomez, Benu. G. Mohapatra, "Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—Structure and Construction Management - Conference Proceedings from ICRDSI-2020 Volume 1", Springer Nature Singapore. <https://link.springer.com/book/10.1007/978-981-16-8433-3>
6. **B. B. Das**, Hiroshan Hettiarachchi, Prasanta Kumar Sahu, Satyajeet Nanda, "Recent Developments in Sustainable Infrastructure (ICRDSI-2020) - GEO-TRA-ENV-WRM - Conference Proceedings from ICRDSI-2020 Vol. 2", **Springer Nature Singapore**.<https://link.springer.com/book/10.1007/978-981-16-7509-6>
7. M. S. Ranadive, **Bibhuti Bhusan Das**, Yusuf A Mehta, Rishi Gupta, "Recent Trends in Construction Technology and Management, Select Proceedings of ACTM 2021", Springer Nature Singapore. <https://link.springer.com/book/10.1007/978-981-19-2145-2>

**Editorial Activities:**

1. Guest Editor to “**Indian Concrete Journal**”, Theme: Green Concrete, A Scopus Indexed Journal Managed and Published by Associated Cement Companies, Thane, Mumbai, India, December 2020.
2. Guest Editor to “**Indian Concrete Journal**”, Theme: High Strength and High performance Concrete, A Scopus Indexed Journal Managed and Published by Associated Cement Companies, Thane, Mumbai, India, June 2019.
3. **Editor-in-chief** of the [Journal of “Advance Research in Construction and Architectural Engineering](http://technology.adrpublications.com/index.php/JoARCAE/)”, an international journal from the ADR Publications, Since December 2013.
4. **Editorial board member** of the Journal of “Advance Research in Civil and Environmental Engineering”, an international journal from the ADR Publications, Since December 2013.
5. **Editorial Board Member** of the Journal of “Construction Engineering (CE)”, an International Journal from the Science and Engineering Publishing Company, since November 2012.
6. **Editorial Board Member** of “Recent Trends in Civil Engineering and Technology (RTCET)”, an International Journal from STM Publications, since September 2012.
7. **Editorial Board Member** of “Journal of Construction Engineering, Technology and Management (JOCETM)”, an International Journal from STM Publications, since June 2012.

**Book Chapters (SCI and SCOPUS):**

1. K. Vismaya, K. Snehal, and Bibhuti Bhusan Das, “Impact of Phase Change Materials on the Durability Properties of Cementitious Composites—A Review”, Select Proceedings of ACTM 2021, Springer Publications Pte Ltd. 2022, A Book Chapter.
2. Shivaprasad K N, B B Das and Krishnadas S, "Effect of Curing Methods on the Artificial Production of Fly Ash Aggregates", Select Proceedings of TMSF 2019, Springer Publications Pte Ltd. 2021, A Book Chapter.
3. Snehal K and B B Das, "Influence of Incorporating Phase Change Materials on Cementitious System – A Review", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
4. Anuj Sharma and B B Das,"Design and Development of Efficient Under-Drainage System for Lined Canals" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
5. Nityanand Kudachimath, Raviraj H M and B.B. Das, "Effect of GGBS on Strength of Aluminium Refinery Residue Stabilized by Alkali Solution" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
6. B P Sharath and B B Das, "Production of Artificial Aggregates using Industrial By-Products admixed with Mine Tailings – A Sustainable Solution", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
7. Sumukh E P, Sharan Kumar Goudar and B B Das, "Predicting the Service-Life of Reinforced Concrete by Incorporating the Experimentally Determined Properties of Steel-Concrete Interface and Corrosion", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
8. Akash Agarwalla and B B Das, "Automation of Curing using Prefabricated Sensors" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
9. Chandra Kant Singh, Apurva Naik and Dr. Bibhuti Bhusan Das, "Inventory Management for Transmission Line Projects" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
10. Arun L Hegde, Aman Jain and B B Das, "Resource Buffers in Construction Projects" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
11. Abhilash Pandey, Praveen Kumar Chaudhary, Dr. Bibhuti Bhusan Das, "Productivity Analysis of Shuttering Works for Sewage Treatment Plant" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
12. Nadimpalli Roopesh, Kuchipudi Aravind Swamy and Dr. Bibhuti Bhusan Das, "Pre-Engineered Building Design of Gas Insulated Substation Housed Under Pressurized Ventilation", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
13. Sushant Shekhar, Prince Shukla and B B Das, "Developing a Standard Template for Activity Linkage and Resource Estimation of MEP Works", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
14. Prabhath R Upadhya, Mriganka Shekhar Das and B B Das, "Multi Criteria Decision Making Approach for Selecting A Bridge Superstructure Construction Method", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
15. Bishal Paul, Santosh Tondihal and B B Das, "Safety Stock in Inventory Management and Wastage Analysis at Construction Sites", Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
16. Shifad S, Pratikshya Pati and B B Das, "A Multidimensional Study on Impact of Energy Efficiency on Life Cycle Cost of a Single-Family Residential Building" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
17. Sharan Kumar Goudar and B B Das, "Influence of Particle Size of Bottom Ash on Mechanical Properties of M30 Grade Concrete" Select Proceedings of TMSF 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter.
18. Sharan Kumar Goudar, Santhosh Kumar Gedela, and B B Das, "A Review on Mechanical and Microstructure Properties of Reinforced Concrete Exposed to High Temperatures" Select Proceedings of ICRDSI 2020, Springer Publications Pte. Ltd., 2021, A Book Chapter. Pages: 719-728
19. K M Prasanna, Irambona Theodose, K N Shivaprasad, and B B Das, "Fast Setting Steel Fibre Geopolymer Mortar Cured Under Ambient Temperature" Select Proceedings of ICRDSI 2019, Springer Publications Pte. Ltd., 2020, A Book Chapter. Pages: 769-787
20. K M Prasanna, Saif Tamboli, and B B Das, "Characterization of Mechanical and Microstructural Properties of FA and GGBS-Based Geopolymer Mortar Cured in Ambient Condition" Select Proceedings of ICRDSI 2019, Springer Publications Pte. Ltd., 2020, A Book Chapter. Pages: 751-768.
21. K Snehal and B B Das, "Application of Andreassen and Modified Andreassen Model on Cementitious Mixture Design: A Review" Select Proceedings of ICRDSI 2019, Springer Publications Pte. Ltd., 2020, A Book Chapter. Pages: 729-750.
22. B P Sharath and B B Das, "Engineering Properties of Heavyweight Concrete - A Review" Select Proceedings of SMTS 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter. Pages: 297-314.
23. Snehal K and B B Das, "Experimental Set-Up for Thermal Performance Study of Phase Change Material Admixed Cement Composites - A Review" Select Proceedings of SMTS 2019, Springer Publications Pte. Ltd., 2021, A Book Chapter. Pages: 137-149.
24. E P Sumukh, Sharan Kumar Goudar and B B Das, "A Review on the Properties of Steel-Concrete Interface and Characterization Methods" Select Proceedings of SMTS 2019, Springer Publications Pte. Ltd., 2020, A Book Chapter. Pages: 167-202.
25. C. Farsana, Bibhuti Bhusan Das, and K. Snehal, "Influence of Fineness of Mineral Admixtures on the Degree of Atmospheric Mineral Carbonation", Select Proceedings of SMTS 2019, Springer Publications Pte. Ltd., 2020, A Book Chapter. Pages: 118-136.
26. Shonu Yadav, **Bibhuti Bhusan Das** and Sharan Kumar Goudar, “Durability Studies of Steel Fibre Reinforced Concrete”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 737-745.
27. Sharan Kumar Goudar, **Bibhuti Bhusan Das**, S. B. Arya, “Combined Effect of Marine Environment and pH on the Impedance of Reinforced Concrete Studied by Electrochemical Impedance Spectroscopy”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 635-649.
28. Sharan Kumar Goudar, Shivaprasad K N, **Bibhuti Bhusan Das**, “Mechanical Properties of Fiber-Reinforced Concrete Using Coal-Bottom Ash as Replacement of Fine Aggregate”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 863-872.
29. Rohini Srikumar**, Bibhuti Bhusan Das** and Sharan Kumar Goudar, “Durability Studies of Polypropylene Fibre Reinforced Concrete”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 727-736.
30. Ashutosh Agrawal, **Bibhuti Bhusan Das**, Sanjaya Kumar Malik, “Optimization of Resources by Real-Time Correlation Study for Maximizing the Productivity”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 167-176.
31. Pradeep Reddy Challa and **Bibhuti Bhusan Das, “**Methods to Monitor Resources and Logistic Planning at Project Sites”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 793-802.
32. Avijit H. Ghosh and **Bibhuti Bhusan Das**, “Implication of Concrete with Chemical Admixture Cured in Low Temperature on Strength, Chloride Permeability and Microstructure”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 287-298.
33. K. Snehal and **Bibhuti Bhusan Das**, “Techniques for Preparation and Dispersion of Nano-SiO2 in Cementitious System—A Review”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 397-407.
34. Rose Mary George, **Bibhuti Bhusan Das** and Sharan Kumar Goudar, “Durability Studies on Glass Fiber Reinforced Concrete”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 747-756.
35. M. Roshan, Shivaprasad K N, **Bibhuti Bhusan Das**, “Study on Mechanical Properties and Leaching of Heavy Metals in the Artificially Produced Fly Ash Aggregates”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 201-212.
36. Rashik Mustafa, Shivaprasad K N, **Bibhuti Bhusan Das**, “Effect of Various Additives on the Properties of Fly Ash Based Geopolymer Mortar”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 707-715.
37. Sanjukta Sahoo and **Bibhuti Bhusan Das**, “Mineralogical Study of Concretes Prepared Using Carbonated Fly ash as Part Replacement of Cement”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 519-529.
38. R. P. Akhil and **Bibhuti Bhusan Das**, “Cost Reduction Techniques on MEP Projects”, Select Proceedings of ICSCBM 2018, **Springer** **Nature** Singapore Pte Ltd. 2019, **A Book Chapter,** Pages: 495-517.
39. Drisya S, **B. B. Das** and Ratri Parida, “Ergonomic Evaluation of Bar Benders in Construction Industry", Ergonomic Design of Products and Worksystems-21st Century Perspectives of Asia, **Springer** **Nature** Singapore Pte Ltd. 2018, **A Book Chapter,** Pages: 57-67.
40. A. Shetti, and **B. B. Das**, “Acid, Alkali and Chloride Resistance of Early Age Cured Silica Fume Concrete”, *Advances in Structural Engineering*, **Springer** India 2015. **A Book Chapter**.
41. **B. B. Das**, and Arkadeep Mitra, “Some Sustainable Materials for Energy Efficient Building Design”, "Civil/ Construction Engineering" of the *Vol. Set-IX,NANOTECHNOLOGY*, Stadium Press LLC 2013. **A Book Chapter**, Pages: 69-92.

**Book Chapters (Non SCI and Scopus)**

1. **B B Das** and Snehal K, “Engineering Properties of Nano-Particles Admixed Concrete-A Review”, Advances in Concrete, Structural and Geotechnical Engineering, Bloomsbury Publishing Plc, 2018, **A Book Chapter,** Pages:190-195.
2. Renjith R, Shivaprasad K N, **B B Das**, Properties of Heat Cured Bottom Ash Based Geopolymer Mortar Admixed with Fly Ash of Different Fineness, Advances in Concrete, Structural and Geotechnical Engineering, Bloomsbury Publishing Plc, 2018, **A Book Chapter,** Pages: 603-607.
3. Sharan Kumar, Gokul A, **B B Das**, “Influence of ‘pH’ on Concrete Bond Strength Retention in Simulated Marine Environment”, Advances in Concrete, Structural and Geotechnical Engineering, Bloomsbury Publishing Plc, 2018, Pages: **A Book Chapter,** 683-687.

**Peer Reviewed Published Journals (SCI and SCOPUS):**

1. B. P. Sharath and **B. B. Das**, “Influence of Integration of Iron Ore Tailings on the Physio-Mechanical and Microstructure Properties of Fly Ash based Coarse Aggregates, ***Status*** - Accepted for publication in “Journal of Testing and Evaluation”, *ASTM Publications*
2. K. M. Prasanna, B. P. Sharath, Himanshu Choukade, K. N. Shivaprasad, B. B. Das & Gangadhar Mahesh, "Research on Setting Time, Compressive Strength and Microstructure of Fly Ash-Based Geopolymer Mixture Containing Slag" **Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer Publications, Singapore.** December 2022
3. Rakesh P, Harishankar R and **B. B Das**, “Comparative Study of Energy Efficiency Criteria for IGBC and GRIHA Systems Using Simulation”, ***Status*** - Accepted for Publication in “Journal of The Institution of Engineers (India)”, *Springer Publications,Singapore*.
4. Sharan Kumar Goudar, E P Sumukh, **B. B. Das**, "Influence of Marine Environment Exposure on the Engineering Properties of Steel-Concrete Interface", ***Status*** - Accepted for Publication in "**The Open Civil Engineering Journal**", *Bentham Science Publications*.
5. Ramalingam Malathy, Sellamuthu Ramachandran Rajagopal Sentilkumar, Annamalai Rangasamy Prakash, **B. B. Das**, Ill-Min Chung, Seung-Hyun Kim and Mayakrishnan Prabakaran, "Use of Industrial Silica Sand as a Fine Aggregate in Concrete—An Explorative Study", ***Buildings***, **MDPI Journals,** August 2022.
6. K Snehal, **B. B. Das** and Salim Barbhuiya, "Influence of Aggressive Exposure on the Degradation of Nano-silica Admixed Cementitious Mortar Integrated with Phase Change Materials", **Construction and Building Materials, *Elsevier*,** June 2022.
7. Salim Barbhuiya and **B. B. Das**, "A Comprehensive Review on the Use of Hemp in Concrete", **Construction and Building Materials**, ***Elsevier***, July 2022.
8. Snehal K, **B. B. Das**, Archana Sudhi, Devendra Pandey, "Pozzolanic Reactivity, Hydration and Microstructure Characteristics of Blended Cementitious Composites Comprising of Ultrafine Particles", **Iranian Journal of Science and Technology, Transactions of Civil Engineering**.
9. Snehal K, **B. B. Das**, Archana Sudhi and Devendra Pandey, “Pozzolanic Reactivity, Hydration and Microstructure Characteristics of Blended Cementitious Composites Comprising of Ultrafine Particles”, **Iranian Journal of Science and Technology, Transactions of Civil Engineering**, ***Springer***, February 2022
10. K N Shivaprasad and **B. B. Das**, "[Study on the Production Factors in the Process of Production and Properties of Fly Ash-Based Coarse Aggregates](https://www.hindawi.com/journals/ace/2021/4309569/)", **Advances in Civil Engineering**, ***Hindawi***, September 2021
11. K Snehal and **B. B. Das**, "Acid, alkali and chloride resistance of binary, ternary and quaternary blended cementitious mortar integrated with nano-silica particles", **Cement and Concrete Composites**, ***Elsevier***, October 2021, Vol. 123, Page: 104214
12. Snehal K and **B. B. Das**, “Effect of phase-change materials on the hydration and mineralogy of cement mortar”, **Construction Materials*, Proceedings of the Institution of Civil Engineers***, December 2020.
13. Sharan Kumar Goudar, **B. B. Das**, S. B. Arya, Shivaprasad K. N, “Influence of sample preparation techniques on microstructure and nano-mechanical properties of steel-concrete interface” ***Construction and Building Materials, Elsevier,*** September 2020,Vol. 256.
14. [Chethan Kumar B](https://www.researchgate.net/profile/Chethan_Kumar_B?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA), [Subhash Yaragal](https://www.researchgate.net/profile/Subhash_Yaragal?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA), [**Bibhuti Bhusan Das**](https://www.researchgate.net/profile/Bibhuti_Das5?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA)**,** “Ferrochrome ash – Its usage potential in alkali activated slag mortars”, **Journal of Cleaner Production**, Vol. 257, June 2020.
15. [Chethan Kumar B](https://www.researchgate.net/profile/Chethan_Kumar_B?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA), [Subhash Yaragal](https://www.researchgate.net/profile/Subhash_Yaragal?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA), [**Bibhuti Bhusan Das**](https://www.researchgate.net/profile/Bibhuti_Das5?_sg%5B0%5D=YczO-sgnHJI_V2RtLEcdn_vxYSErMEH-aEFxh40oW3avIrVLNzu0MtqHFdxq2i91LDIm9l4.aIQp_alo23zShE-2ZorfM30oW0Iw-vB7Gb3EtJthkTov31FG5tBLgNd3cQRTaXmQIyE1Wvq5zNjiJJKq1Qnjgg&_sg%5B1%5D=0WgKU_HtWcXh75vQLM2H6tMzgqOb_ABB_R7X8-yKHsyYAx8tCZL9RATNxStZQUu6OEtejfs.mTU7kJnY9zgKcMg-r1rWiAwxFhZx7iW9yCpzLfLRbsBDIz3JZE7TZmnMviK8SGwHOe7h0uTxtjRvmzEiQeeNSA)**, “**Effect of elevated temperatures on ferrochrome ash based mortars”, **Indian Concrete Journal, Vol.**  93(10), Pages: 14-20.
16. Snehal K, **B. B. Das** and Sumit Kumar, “Influence of Integration of Phase Change Materials on Hydration and Microstructure Properties of Nano Silica Admixed Cementitious Mortar”, ***Journal of Materials in Civil Engineering, ASCE,*** Vol. 32 (6), February 2020**.**
17. Snehal K, **B. B. Das** and Akanksha M, “Early age, Hydration, Mechanical and Microstructure Properties of Nano-Silica Blended Cementitious Composites”, ***Construction and Building Materials, Elsevier,*** February 2020,Vol. 233.
18. Kadepalli Nagendra Shivaprasad, **Bibhuti Bhusan Das** and Bevinahalli Prakash Sharath, “Pelletisation factors on the production of fly-ash aggregates and its performance in concrete”, **Construction Materials**, Proceedings of the Institution of Civil Engineers, January 2020.
19. Sharan Kumar Goudar, **B. B. Das** and S B Arya, “Microstructural Study of Steel-Concrete Interface and its Influence on Bond Strength of Reinforced Concrete”, ***Advances in Civil Engineering Materials, ASTM International,*** Vol.8 (1), 2019, Pages 171-189*.*
20. Snehal K and **B. B. Das**, “Mechanical and Permeability Properties of Hybrid Fibre Reinforced Porous Concrete”, ***The Indian Concrete Journal***, Vol.93 (1), January 2019, Page 54-59.
21. Shivaprasad K Nand **B. B. Das**, “Effect of Duration of Heat Curing on the Artificially Produced Fly Ash Aggregates” In ***IOP Conference Series: Materials Science and Engineering*,** vol. 431, no. 9, p. 092010(1-8), IOP Publishing, October 2018.
22. Sharath B P, Shivaprasad K N, Athikkal M M and **B. B. Das**, “Some Studies on Sustainable Utilization of Iron Ore Tailing (IOT) as Fine Aggregates in Fly Ash Based Geopolymer Mortar” In ***IOP Conference Series: Materials Science and Engineering*,** vol. 431, no. 9, p. 092013(1-8), IOP Publishing, October 2018.
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**RESEARCH AND CONSULTANCY PROJECTS UNDERTAKEN \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Bridge Management through Life Cycle Cost Analysis, Grant from National Institute of Construction Management and Research (NICMAR), Amount-1.11 lakhs, **Status-Completed**.
2. Mix Design of Concrete by Utilizing Lead Slag as a Partial Replacement to Fine Aggregate, Eshwari Global Metal Industries Pvt. Ltd, Consultancy Amount: 0.86 Lakhs, **Role: Principal Investigator,** **Status: Completed**.
3. Development of Value Added Geopolymer Aggregates using Iron Ore Mine Tailings - A Sustainable Solution, Grant from Technology Development Programme, **Department of Science and Technology** (TDP-DST) and **Kudremukh Iron Ore Company Limited** (KIOCL). **Status-Completed (20/11/2017-22/05/2022)**.
4. Influence of Binary and Ternary Cementitious Composites on the Engineering Properties of Interfacial Transition Zone of Reinforced Concrete Exposed to Aggressive Environments, Grant from Extra Mural Core Research Funding, **Department of Science and Technology (EMR-DST)**, **Status-Completed (20/08/2018-06/02/2022).**
5. Collaborative Research and Capacity Building on Climate Resilient Concrete for Marine Environment, Award from **Royal Academy of Engineering**, United Kingdom, in collaboration with University of Leeds, UK. **Status-Ongoing (01/04/2019-31/03/2021).**
6. Performance Studies on Concrete Mixed with Spent Catalyst Waste for Sustainable Solutions, **Mangalore Refinery and Petrochemicals (MRPL), Status-Completed (01/06/2019-31/03/2020).**
7. L&T Sponsored M. Tech Program Project, Sponsored from Larsen & Toubro, Amount: 375 Lakhs (2014-19), **Role: Co-Coordinator,** **Status: Completed.**
8. L&T Sponsored M. Tech Program Project, Sponsored from Larsen & Toubro, Amount: 375 Lakhs (2019-23), **Role: Co-Coordinator,** **Status: Ongoing.**

**GLOBAL INITIATIVE OF ACADEMIC NETWORKS (GIAN) COURSES \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Construction Pollution and Management, Dr. Prashant Kumar, Professor, University of Surrey, United Kingdom, Amount Sanctioned from Ministry of Human Resource Development (MHRD) – 5.44 Lakhs, **Status-Completed** (12/02/2018 to 16/02/2018).
2. Concrete: Microstructure Characterization, Dr. Narayanan Neithalath, Professor, Arizona State University, United States of America, Amount Sanctioned from Ministry of Human Resource Development (MHRD) – 5.44 Lakhs, **Status-Completed** (18/06/2018 to 22/06/2018).
3. Whole Life Management of Concrete Structures, Dr. Sreejith Nanukuttan, Senior Lecturer, Queen’s University of Belfast, United Kingdom, Amount Sanctioned from Ministry of Human Resource Development (MHRD) – 5.44 Lakhs, **Status-Completed** (10/09/2018 to 14/09/2018).
4. Design of Concrete Structures Reinforced with Fiber Reinforced Polymer (FRP) Bars, Dr. Anil Patnaik, Professor, University of Akron, Ohio, United States of America, **Status-Approved (29th July – 2nd August 2019).**

**WORKSHOPS, SEMINARS, CONFERENCES AND SHORT TERM COURSES ORGANIZED\_\_\_\_\_\_\_\_**

1. **Co-Ordinator**, “Design and Development of Sustainable Concrete in the Era of Global Warming”, Supported by TEQIP-II, National Institute of Technology Karnataka, Surathkal, 9th-10th January 2017.
2. **Co-Ordinator**, “Path to Sustainability-A poster level competition”, Supported by TEQIP-II, National Institute of Technology Karnataka, Surathkal, 9th-10th January 2017.
3. **Co-Ordinator**, Repair and Maintenance of Buildings, Centre for Continuing Education, National Institute of Technology Karnataka, Surathkal, Organized for Karnataka Public Works and Irrigation Department Engineers Sponsored by Engineering Staff College, Krishnarajasagara, 19th - 23rd June 2017.
4. **Co-Ordinator**, “Induction Program Workshop” for 1st Year B. Tech Students (2017-18 batch of NITK), Supported by TEQIP-III and as per the direction of the NPIU, MHRD, National Institute of Technology Karnataka, Surathkal, 6th – 8th October and 3rd – 5th November 2017.
5. **Co-Ordinator**, “Springer Author Workshop”, National Institute of Technology Karnataka, Surathkal, 20th June 2018.
6. **Organizing Chair**, “International Conference on Sustainable Construction and Building Materials”, National Institute of Technology Karnataka, Surathkal, 18th – 22nd June 2018 (In association with **Springer Nature, Singapore**).
7. **Co-Ordinator**, “Low Cost Housing and Rural Roads”, Centre for Continuing Education, National Institute of Technology Karnataka, Surathkal, Organized for Karnataka Public Works and Irrigation Department Engineers Sponsored by Engineering Staff College, Krishnarajasagara, January 7th – 11th January 2019.
8. **Co-Ordinator**, “Fiber Reinforced Concrete and its Applications”, Supported by TEQIP-III, National Institute of Technology Karnataka, Surathkal, held in November 2019.

**ADMINISTRATIVE POSITIONS \_\_\_\_\_\_\_\_**

1. Centre Head, National Institute of Construction Management and Research (NICMAR), Goa Campus
2. Centre Head, National Institute of Construction Management and Research (NICMAR), Indore Campus
3. Faculty Advisor, M. Tech Construction Technology and Management, Civil Engineering Department, NITK, 2nd Year Batch, 2015-16, 1st Year Batch, 2016-17, 2nd Year Batch, 2017-18.
4. Faculty Advisor, M. Tech M. Tech Construction Technology and Management, , Civil Engineering Department, NITK
5. Time Table In-charge: Civil Engineering Department, NITK
6. Library Advisory Committee Member: Civil Engineering Department, NITK
7. In charge for the implementation of online course registration from civil engineering department, NITK
8. Secretary-DPGC (Department Post Graduate Committee), from July 2017.
9. Warden-Maintenance (NITK)
10. Committee Member-Institute Start-Up Cell, NITK
11. Core Committee Member-Institute Central Research Facility (CRF), NITK
12. Member, Departmental (Civil Engineering) Testing and Consultancy Committee, NITK.
13. Faculty-In-charge, Materials Laboratory, Civil Engineering Department, National Institute of Technology Karnataka, Surathkal, Mangalore, 575025, India (Since January 2019).
14. Faculty-In-charge, Sustainable Construction and Building Materials Laboratory, Civil Engineering Department, National Institute of Technology Karnataka, Surathkal, Mangalore, 575025, India (in the process of Development).

**INVITED TALKS/PRESENTATIONS \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Dr. B B Das delivered a keynote address on "Advanced Characterization Techniques for the Quantification of Hydration and Microstructure Properties of Nano Silica Blended Cementitious Mortar", during a International Conference on 'Novel Sustainable Concepts and Technologies in Civil Engineering (NSCTCE-2022)' organized by Dept. of Civil Engg., SJEC, Mangalore, Karnataka, India, held on 26th September, 2022.
2. Dr. B B Das delivered a research talk on "Hydration and Microstructure Properties of Nano Silica Admixed Sustainable Cementitious Composites", during National Seminar on 'Sustainable Building Materials and Construction", organized by Dept. of Civil Engg., Christ University, Bangalore in association with SERB - DST, Govt. of India, held on 22nd September, 2022.
3. Keynote address on "Hydration and Microstructure Characteristics of Nano-Silica Admixed Mortar" during US2020 Partnership Workshop on "FRP Materials and Sustainable Structures", organized by Dept. of Civil Engineering, BITS-Pilani, India, held on 4th March, 2022
4. Research talk on "Nanotechnology (Hydration and Microstructure Characteristics)" and "Sustainable Advances and Requirements of Research in Concrete Technology in the Era of the 21st Century" on January 5th and 6th, 2022 during AICTE sponsored one week online ATAL FDP on 'Advances in Construction Techniques', held from January 3rd to 7th, 2022 organized by BLDEA's V.P Dr. P.G. Halakatti College of Engineering and Technology, Vijayapur-Karnataka.
5. Guest Lecture on "Characterization of mineralogical composition of cement hydration products with the help of thermogravimetric studies" during Indo-US Symposium for Enhancing Fire Safety in Built-Infrastructure, held in IIT Delhi, on December 10th, 2021.
6. Guest Lecture on the topic "Hydration and Microstructure Properties of Nanosilica Admixed Sustainable Cementitious Mortar" during a five days short term training program (NIRMANN) on "Recent Trends in Construction Practice" organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi., held on June 30, 2021.
7. Guest lecture on “Influence of Types of Cements On the Engineering Properties of Interfacial Transition Zone of Reinforced Concrete”, during one week online Faculty Development Programme on "Thrust Areas of Research in Civil Engineering" organized by Department of Civil Engineering, Dr. N.G.P Institute of Technology, Coimbatore, in association with Indian Concrete Institute, Coimbatore Centre, held during May 31 - June 04, 2021.
8. Guest lecture on “Hydration and Microstructure Characteristics of Nanosilica Admixed Cementitious Composites” and Non Destructive Testing of Concretes - Rebound Hammer and USPV” during two weeks AICTE sponsored Faculty Development Progarmme on " Structural Assessment, Repair and Rehabilitation of Structures" organized by Department of Civil Engg., Sri Krishna College of Engg. and Technology, Coimbatore, held from 10th to 22nd May, 2021.
9. Guest lecture on “Hydration and Microstructure Characteristics of Nano-SiO2 Admixed Sustainable Cementitious Composites” during three days Faculty Development Programme on "Sustainable Building Materials and Practice" organized by the Department of Civil Engineering MBITS, Kothamangalam, sponsored by APJ Abdul Kalam Technological University (KTLI), Kerala on 28th April 2021.
10. Guest lecture on “Hydration and Microstructure Characteristics of Nano-SiO2 Admixed Blended Cementitious Composites” during TEQIP-III sponsored five days Faculty Development Programme on "Recent Avenues in Civil Engineering (RACE 2021)" hosted by Dept. of Civil Engineering, Sri Jayachamarajendra College of Engineering (SJCE), Mysuru on
11. Guest lecture on 'NDT of Concrete' under AICTE Short Term Training Programme (2nd Phase), hosted by Thiagarajar Polytechnic College, Salem (TN) on 10th December, 2020.
12. Webinar on "Sustainable Advances and Requirements of Research in Concrete Technology in the Era of the 21st Century" hosted by School of Engineering and Technology, Dept.of Civil Engineering, Christ University, Bangalore on 10th October 2020.
13. Keynote Address on "Engineering Properties of Nano Silica Admixed Cementitious Composites" during the Online International on "*Sustainable Materials And Practices For Infrastructure Development (SMPID-2020),* organized byDepartment of Civil Engineering, Government College of Engineering, Kalahandi, Bhawanipatna, Odisha, India, held on 17th-18th September 2020.
14. Research talk on "Sustainable Advances and Requirements of Research in Concrete Technology in the Era of the 21st Century", Webinar hosted by School of Engineering, Dept. of Civil Engineering, Christ University, Bangalore on 10th October, 2020.
15. Research Talk on “Nano SiO2 Based Optimised Cementitious Composites - A Sustainable Solution” during One - Week Online Faculty Development Programme on ‘Recent Advancements in Concrete Technology’ hosted by Dept.of Civil Engineering, B.M.S. College of Engineering, Bangalore, held during 22nd to 26th June 2020.
16. Webinar on “Hydration & Microscopic Properties of Nano silica Admixed Cementitious Mortar” hosted by Goa Engineering College Farmagudi, on 1st June ,2020.
17. Guest Lecture on “Latest Research on Material Characterization” during AICTE sponsored two weeks faculty development program on ‘Recent Advances in Sustainable Design of Structures’, hosted by MVGR College of Engineering (Autonomous), Vizianagaram, held during 18th to 30th, December, 2019.
18. Guest Lecture on “Pore Structure Characterization of Concrete” during Recent Trends in Construction Materials and Structures, (ICON 2019) - Pre-Conference Workshop, hosted by VIT, Vellore, on 17th September, 2019.
19. Guest Lecture on “Properties of Steel Concrete Interface and the Characterization Methods”, during TEQIP-III Sponsored Faculty Development Programme on ‘Sustainable Construction Materials and its Characterization’, hosted by Department of Civil Engineering, PSG College of Technology, held during 10th to 16th June, 2019.
20. Expert Lecture on “Properties of Steel Concrete Interface and the Characterization Methods”, TEQIP-III Sponsored Faculty Development Programme on “Sustainable Construction Materials and its Characterization, Department of Civil Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India, 11th June 2018.
21. Expert Lecture on “Recent Advances in Construction Management**”,** Faculty Development Programme, Department of Civil Engineering, College of Engineering, Thrissur, Kerala, July 2018.
22. Expert Lecture on “Water Proofing of Buildings and Structures”, Centre for Continuing Education, National Institute of Technology Karnataka, Surathkal for Karnataka Public Works and Irrigation Department Engineers Sponsored by Engineering Staff College, Krishnarajasagara, June 2017.
23. Invited talk on “Acid Alkali and Chloride Resistance of Concrete Composed of Low Carbonated Fly Ash”, BMSIT&M, Bangalore, April 2017.
24. Keynote speech on “Cellular Light Weight Concrete Blocks”, Sea Associates, Brahmapur, Odissa, September 2016.
25. “Construction Technology”, Workshop in Advances in Construction Technology, Department of Civil Engineering, Secab Institute of Engineering and Technology, Bijapur, April 2016.
26. “Concrete Mix Design”, 3 Days S.T.T.T.P. for Engineers, Department of Civil Engineering, NMAM Institute of Technology, NITTE, Karnataka, October 2015.
27. Keynote Speaker, Advanced Construction Technology, Samarth Group of Institutions, Himmatnagar, Gujarat, 2015.
28. Keynote speaker, Structural Engineering Convention 2014, IIT Delhi.
29. “Investigate Causes and Develop methods for Preventing Falling Concrete from Bridge Decks”, Goa Engineering College,Farmagudi, Goa,22nd February 2013.
30. “Development of Innovative CFRP Decked Bulb-T Beam Highway Bridge System", Indian Institute of Technology Hyderabad, 12 April 2011. http://civil.iith.ac.in/seminar.html.
31. “Preventing Falling Concrete from Bridge Decks”, National Institute of Technology, Rourkela, 19th April 2011.
32. “Corrosion Cracking in Reinforced Concrete Structures”, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA, July 2011.

**COURSES TAUGHT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Post Graduate Level***

 **(at National Institute of Technology Karnataka)**

1. Construction Planning and Control (ODD 2015, ODD 2016, ODD 2017)
2. Project Management Software-Primavera (EVEN 2016, EVEN 2017, EVEN 2018)
3. Repair and Restoration of Structures (EVEN 2016, EVEN 2018)

 **(at NICMAR Campus, India)**

1. New Technologies and Materials (Fall 2012, 2014)
2. Construction Practice Workshop (Fall 2012, Spring 2013, Fall 2014)
3. Building Maintenance and Management (Spring 2013)
4. Construction Methods and Technologies (Fall 2013)
5. Project Management Software-Primavera (Spring 2015)
6. Construction Quality Management (Spring 2014, 2015)

 **(at Lawrence Technological University, USA)**

1. Advance Steel Design (Summer 2010)
2. Finite Element Analysis (Fall 2010)

**(at KIIT Deemed University, India)**

1. Advanced Concrete Structures (EVEN 2012)
2. Construction Engineering Practices (EVEN 2012)
3. Civil Engineering Materials Laboratory (EVEN 2012)

***Graduate Level***

**(at National Institute of Technology Karnataka)**

1. Concrete Technology (ODD 2015, ODD 2016, ODD 2017)
2. Civil Engineering Materials Laboratory (ODD 2015, ODD 2016, ODD 2017)

**(at KIIT Deemed University)**

1. Transportation Engineering (EVEN 2012)
2. Highway Materials Laboratory (EVEN 2012)
3. Concrete Technology (ODD 2012)

**STUDENT GUIDANCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Completed**

**Doctorate Level (Total 06)**

1. Sanjukta Sahoo, “Study on the Relevance of Carbonated Fly ash in Concrete and its Performance Assessment with respect to Control Concrete and Fly ash Concrete”, registered with KIIT University in July 2012. (Defense 27th April 2016), **Role: Supervisor**.
2. Shivaprasad K N, “Sustainable Production of Fly Ash Based Coarse Aggregates and its Performance in Concrete”, NITK Surathkal, (Defense-27/01/2020), **Role: Supervisor**.
3. Sharan Kumar, “Determination of Engineering Properties of Steel-Concrete Interface of Reinforced Concrete Exposed to Marine Environment”, NITK Surathkal, (Defense-14/07/2020), **Role: Supervisor**.
4. Chethan Kumar B, “Performance Evaluation of Ferrochrome Ash Based Alkali Activated Slag Mortars”, NITK Surathkal, (Defense -04/07/22), **Role: Co-Supervisor**
5. Snehal K, “Thermo-Mechanical and Durability Properties of Cement Mortar Integrated with Nano-Silica Particles”, NITK Surathkal, (Defense -18/07/22), **Role: Supervisor**
6. Nityanand Kudachimath**, “**Use of Aluminium Refinery Residue (Red Mud) as a Construction Material for Pavements, NITK Surathkal, **Role: Co-Supervisor**

**Masters Level (01 MS at LTU, USA, 99 M. TECH at NITK and 21 groups of PGPACM at NICMAR)**

**Undergraduate Level (01 group at KIIT University, 07 groups at NITK)**

**Ongoing**

**Doctoral Level**

| **Name** | **Research area** | **Status** |
| --- | --- | --- |
| K M Prasanna | Mechanical and Durability Properties of Geopolymeric Fly Ash Based Grout Prepared in Ambient Conditions  | Started in 2016 |
| Sharath B P | Influence of Raw Materials and Binding Agents on Physical, Mechanical and Mineralogical Properties of Artificially Produced Fly Ash Based Coarse Aggregates | Started in 2018 |
| Rakesh Pallath | Influence of Various Performance Parameters on the Life Cycle Cost and Life Cycle Energy of Buildings  | Started in 2018 |
| Sumukh E P | Potential Usage of Industrial By-Products as Replacement to Fine Aggregates in the Development of Sustainable and High-Performance Cementitious Mortar  | Started in 2019 |
| Shiv Sai Trivedi | Experimental Study on Recycled Aggregate Concrete  | Started in 2020 |
| Sanjeet Mishra | Concrete 3-D Printing | Started in 2021 |
| Shwetha K G | Geopolymer Concrete | Started in 2021 |
| Kiran Bhat P |  | Started in 2021 |
| Chaitra A R |  | Started in 2022 |

**HONORS / AWARDS / ACHIEVEMENTS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Fellow Membership** from Association of Consulting Civil Engineers (India).
* **Member of Conference Review Committee f**or 2nd International Conference on "Sustainable Construction Technologies and Advancements in Civil Engineering, (ScTACE 2021)", organized by Dept. of Civil Engineering, Shri Vishnu Engineering College for Women, Bhimavaram, AP., held during October 14 - 16, 2021.
* **Patron** for International Conference on “Advances in Construction Technology and Management (ACTM-2021)”, organized by Department of Civil Engineering College of Engineering Pune (COEP), going to held on 11th – 12th March 2021.
* **Program Chair** for International Conference on “Sustainability and Equity”, organized by Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India held during 23rd – 25th November, 2020.
* **Conference Advisor** for International Conference on “Recent Developments in Sustainable Infrastructure” (ICRDSI 2020), second edition, organized by School of Civil Engg., KIIT Bhubaneswar, India held during 18th – 21st December, 2020.
* **Session Chairman** of Technical session of International Conference on “Recent Developments in Sustainable Infrastructure” (ICRDSI 2020), organized by School of Civil Engg., KIIT Bhubaneswar, India., held during 18th – 21st December, 2020.
* **Invited Speaker** and virtually sharing the platform with one of the Nobel Laureate Dr. Richard John Roberts in an International Conference on "Sustainability and Equity" organized by KIIT University, Bhubaneswar, held during November 23-25, 2020.
* **Invited Keynote Speaker, Forum of Revolutions in Renewable Energy in 21st Century (FOREN-2019)**, **07-09 October, 2019 at Holiday Inn Rome Pisana in Rome, Italy** on the theme *“The Prime Priority of the 21st Century”.*
* **Invited Keynote Speaker**, International Conference on Recent Trends and Innovation in Civil Engineering, Department of Civil Engineering, Medi-Caps University, Indore, India, 12-14 September 2019.
* **International Scientific Committee Member**, 2nd International Conference on Numerical Modelling in Engineering, 19-22 August, 2019. Bejing, China.
* **Program Chair**, “International Conference on Recent Developments in Sustainable Infrastructure - (Materials and Management)”, School of Civil Engineering, KIIT Deemed University, Bhubaneswar, July 11th to July 13th 2019.
* **Organizing Committee Member** for the "International Conference on “Multidisciplinary Perspectives in Engineering & Technology" to be held on May 24-25, 2019 in the city of Markapur, Andhra Pradesh.
* **Technical Advisory Committee Member**, “International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2019)”, May 23-24, 2019. NMAM Institute of Technology, Nitte, Karnataka.
* **National Advisory Committee Member and Keynote Speaker**, International Conference on "Smart Materials and Techniques for Sustainable Development (SMTS-2019)", 4th – 5th April 2019, Dr. N. G. P. Institute of Technology, Coimbatore, Tamilnadu, India 641014.
* **Session Chair**, “First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019), 19th-20th March 2019, Dayanand Sagar Academy of Technology and Management, Bangalore, India.
* **Keynote Speaker,** International Conference on “Sustainable Materials and Structures for Civil Infrastructures” on 14-15 March 2019 organized by Department of Civil Engg., UIT-RGPV, Bhopal, MP.
* **Session Chairman,** UKIERI Concrete Congress: Concrete the Global Builder, National Institute of Technology Jalandhar, 5th-8th March 2019.
* **Outstanding Reviewer Award,** Construction and Building Materials, Elsevier. August 2018.
* **Organizing Chair**, “International Conference on Sustainable Construction and Building Materials”, National Institute of Technology Karnataka, Surathkal, 18th – 22nd June 2018 (In association with **Springer Nature, Singapore**).
* **Advisory Board Member**, Build Buddy, a startup company preparing and selling the dry mortar mixes.
* **Member Board of Studies (BOS)** of Civil Engineering Department, NMAM Institute of Technology (An autonomous institute affiliated to VTU, Belagavi) since May 2016.
* **Member Board of Examination (BOE)** of Civil Engineering Department, NMAM Institute of Technology (An autonomous institute affiliated to VTU, Belagavi) since November 2016.
* **Chaired a Session** at Second International Conference on Advances in Concrete, Structural & Geotechnical Engineering, February 26 – 28, 2018, held at Birla Institute of Technology and Science Pilani, India.
* **Best Paper Award** to “Characteristics of Bio-Concrete Mixed and Cured with Treated Domestic Wastewater”, 1st International Conference on Durability of Building and Infrastructures, January 10th-12th 2018, Miri, Sarwak, Malyasia.
* **Best Paper Award** to “Assessment of Carbonated Fly Ash in Concrete in Perspective of Structural Strength”, 1st International Conference on Durability of Building and Infrastructures, January 10th-12th 2018, Miri, Sarwak, Malyasia.
* **Chaired a Session** at 1st International Conference on Durability of Building and Infrastructures, January 10th-12th 2018, Miri, Sarwak, Malyasia.
* **Best Paper Award** to “Study on Strength Behaviour of Concrete Using Battery Slag and Electronic Waste as Partial Replacement for Fine Aggregates”, International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, MITE Moodabidri, Mangalore – 574225, India, 17th -18th March 2017.
* **Chaired a Session** at International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, MITE Moodabidri, Mangalore – 574225, India, 17th -18th March 2017.
* **Best Paper Award** to “Effect of Liquid to Solid Ratio of Alkaline Activator to Cement Based Materials on the Efficiency of Geo-Polymerization, UKIERI International Conference on Advances in Concrete Technology, Materials & Construction Practices (CTMC2016), 22-24, June 2016.
* **Chaired a Session** at UKIERI International Conference on Advances in Concrete Technology, Materials & Construction Practices (CTMC2016), 22-24, June 2016.

## Chaired a Session at International Conference on Emerging Trends in Engineering (ICETE-2016), NMAM Institute of Technology, NITTE, Karnataka May 2016.

## Committee Member, Indian Standard Code for Construction Management Including Safety in Construction, Bureau of Indian Standard (BIS), New Delhi.

## Chaired a Session at the Structural Engineering Convention-2014, Indian Institute of Technology New Delhi, December 2014.

## Keynote Speech on the topic “ACID, ALKALI AND CHLORIDE RESISTANCE OF EARLY AGE CURED SILICA FUME CONCRETE”, at the Structural Engineering Convention-2014, New Delhi, December 2014.

* **Advisory Board Member**, Civil Engineering Department, IPS Academy, Rajendra Nagar, A. B. Road, Indore-751012 for the year 2015.
* **Advisory Board Member**, Structural Engineering Department, Vikrant Group of Institutions, Harshola, Indore, since 2014.
* **Faculty Co-ordinator** of the 1st established student chapter of Indian Green Building Council in the state of Goa, at NICMAR Goa Campus Since October 2013.
* **Technical Committee Member** of 2014 International Conference on Mechatronics and Mechanical Engineering held from September 6th to 8th2014 at Chengdu, China.
* **Best paper** presentation award to our paper “Nanomaterials for Construction Engineering”, Presented in the International Conference on Nano Science and Technology (ICNST), held in New Delhi, September 2013.

## Chaired a Session at the International Conference on Nano Science and Technology (ICNST), New Delhi, September 2013.

## Associate Member of International Faculty Network of American Concrete Institute (ACI), sinceFebruary 2012.

## CIMR Post-Doctoral Fellowship awarded by the Center for Innovative Materials Research, Lawrence Technological University, Southfield, Michigan, USA, from 2009-2012.

## Committee Member, Indian Standard Code for Fabrics in Construction, Bureau of Indian Standard (BIS), New Delhi.

## Industrial PhD scholarship from Central R&D-Cement Business, Grasim Industries Ltd., from 2004-2007.

* **Fully Funded Teaching Assistantship** in the year 2002-2004 (to carry out research activities in department of civil engineering, Indian Institute of Technology, Delhi while pursuing Master of Technology in Civil Engineering).
* **University Gold Medal** for securing highest position in the branch during the undergraduate study, 2001.

**MEMBERSHIP \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Life Member, Indian Concrete Institute, Chennai, India, No: 11701
* Associate Member, American Concrete Institute, USA, No: 01052699
* Associate Member, American Society of Civil Engineers, ASCE, USA. No: 475206
* Associate Member of International Association for Computer Methods and Advances in Geomechanics, USA
* Member, American Society for Testing and Materials, ASTM, USA, No: 1045511

## Member of Prestressed Concrete Institute, Chicago, IL, USA

* Senior Member, International Association of Computer Science and Information Technology (IACSIT, www.iacsit.org), Singapore, Member No: 80347145.
* Senior Member, Universal Association of Civil, Structural and Environmental Engineers (UACSE, [http://uacse.org](http://uacse.org/)), Member Id: SNM101000523.

**REVIEWER (SELECTED)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Journal of Materials in Civil Engineering, ASCE
* Canadian Journal of Civil Engineering
* Construction and Building Materials, Elsevier Publications
* International Journal of Recent Trends in Civil Engineering and Technology
* International Journal of Construction Engineering, Technology and Management
* Journal of Construction Management, published from NICMAR
* PMI India Research and Academic Conference 2013
* Construction Materials, Institute of Civil Engineers, UK.
* Structural Engineering Convention 2014
* International Journal of Concrete Structures and Materials (IJCS), Springer Publications
* International Journal of Construction Management, Taylor and Francis Publications
* Proceedings of the Institution of Civil Engineers, United Kingdom
* Indian Concrete Journal
* Structural Concrete, Wiley Publications.
* ICSCBM-2018
* ICRTICE-2019
* CTRG-2019
* SMTS-2019
* Case Studies in Construction Materials
* Engineering and Applied Science Research
* Ain Shams Engineering Journal
* International Journal of Construction Management

I hereby declare that all the above mentioned things are true to the best of knowledge and belief.

 (Dr. Bibhuti Bhusan Das)