Prof. Sumit Gandhi

Professor & HOD

Education: B.Tech, M.Tech., Ph.D.

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Areas of Interest: His area of interest includes Open Channel Flow, Spillways, Sediment transport, Design of Hydraulic Structures, Water Resources and Cathodic Protection of RCC Structures.

Brief Profile:

Dr. Sumit Gandhi presently working as a Professor & Head (Civil Engineering) and completed his Ph.D from Motilal Nehru National Institute of Technology, Allahabad in 2009. His area of work during Ph.D was Flow Behavior in Prismatic and Non-Prismatic Open Channels. He has completed M.Tech in Water Resource from Motilal Nehru National Institute of Technology, Allahabad in 2004 and B.Tech in Civil Engineering from North Maharashtra University, Maharashtra in 2001. He has more than twenty years of teaching and research experience in the field of Civil Engineering. He has guided PhD and M.Tech thesis and various UG projects under his supervision in different fields of Civil Engineering. He has published many research papers in reputed international journals/conferences and also written books. He is associated with many renowned International Journals as reviewer and editorial board member and reviewed more than fifty articles and book chapters. He has attended and presented many research papers in different international and national conferences in India and abroad. He is a life member of ISH, FMFP, IEI, ISET Research and IAENG. He has conducted many conferences, workshops, webinars and outreach activities in order to serve for the society. He is also working as a member of various committees at University level. He is also a coordinator of Centre of Excellence for Wind Engineering Application Centre (WEAC) at JUET Guna.

Ph.D. Supervision

Completed - 02, Ongoing – 02

1. Yogesh Iyer Murthy (153151), “Corrosion Mitigation of Structures Using Magnesium Alloys As Sacrificial Anodes”, 2021. (completed)
2. Garima Rawat (193D001), “Studies on Concrete Properties Using Nano Titanium Dioxide”, 2023 (completed)
3. Shikha Pandey (203D002), “Cathodic Protection of RCC Structures”. (ongoing)
4. Prachi Chincholikar (213D001), “Flow Characteristics and Energy Dissipation over Stepped spillway”. (ongoing)

M.Tech. Supervision
Completed – 02

1. Shubham Jaiswal (172D001), “Computational Analysis of Carbon Fiber Based Hybrid Composite Plates”, 2019. (Co-supervisor: Dr. Y. I. Murthy)

2. Rohit Kumar (222D003), “Studies On Concrete Incorporating Incinerated Biomedical Waste Ash”, 2024 (Co-supervisor: Dr. Y. I. Murthy)

Research Association

1. Editorial Board Member of 'Civil and Energy Research' Journal, Luminescience Press Publishing, HongKong.

2. Editorial Reviewer's Board, Water Resources Management, Springer.

3. Editorial Reviewer's Board, Journal of Applied Fluid Mechanics, ISSN 1735-3645, EISSN 1735-3645.

4. Academic Editor, Advances in Research, SCIENCEDOMAIN International Journal (ISSN: 2348-0394).

5. Editorial Board Member, Journal of Water Engineering, TULPAR Academic Publishing.

6. Associate Editor, International Journal of Applied Research, ISSN Print: 2394-7500 | ISSN Online: 2394-5869 | CODEN: IJARPF.

7. Editorial Board Member, Elixir Editorial Advisory Board, Elixir International Journal, ISSN: 2229 -712X.

8. International Scientific Committee and Editorial Review Board Member, World Academy of Science, Engineering and Technology Journal.

9. Editorial Reviewer's Board, Journal of Scientific Research and Reports, SCIENCEDOMAIN International Journal.

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1. Titled "Web Application for non-steady state chloride migration coefficient", This mobile web application will enable determination of chloride migration coefficient of any given structure with just three input parameters. Date of filing: 9th February 2022, Date of Publication: 17th September 2022, Registration No.: SW-15748/2022.

2. Hand Held Device To Analyse Cement Quality, Design No.: 394721-001, The Patent Office Journal No. 45/2023 Dated 10/11/2023 Date of filing: 08.09.2023.

3. Device for electricity generation from waste water treatment, Design no.: 396609-001, The Patent Office Journal No. 47/2023 Dated 24/11/2023 date of filing: Date of filing: 04.10.2023,

4. Digital Levelling Equipment In Construction Industry, Application No. 393623-001, The Patent Office Journal No. 51/2023 Dated 22/12/2023 Date of filing: 25.08.2023.

PATENT PUBLISHED

1. "Sacrificial Anodes For Corrosion Mitigation of RCC Structures Using Mg-Ca-Y Alloys", (patent application No. 201821043948), Date of publication - 22nd May 2020.

2. "Sacrificial Anodes For Corrosion Mitigation of RCC Structures Using Mg-Ca-Nd Alloys", (patent application No. 201821043949), Date of publication - 22nd May 2020.

3. “Effects of Water Cement Ratio and Curing Time on the Carbonation”, (patent application No. 202231049079), Date of publication- 09.12.2022.

4. “Smart Device To Monitor The Construction Materials Management and Self-Phased Ordering of Building Materials”, (patent application No. 202241051171 A), Date of publication- 16.09.2022.

BOOK PUBLICATION

1. Gandhi S and Singh R P (2011): Studies On Hydraulic Jump In Prismatic And Non-Prismatic Channels, ISBN: 978-3-8465-1447-4, Lambert Academic Publishing, Saarbrücken Germany.

2. Fatma Zahra, Ram Pal Singh, Sumit Gandhi (2023): Interactions and Adsorption Dynamics of Cr (VI) Removal by EOLP, ISBN 13: 978-620-6-15558-4, ISBN 10: 6206155587, Lambert Academic Publishing, Saarbrücken Germany.

BOOK CHAPTER

1. Hridesh Kumar Trivedi, Nikita Choudhari and Sumit Gandhi (2020): “Geotextile Filters in Earthen Dam- A Review Study on Construction and Rehabilitation”, International Conference on Smart Technologies for Energy, Environment & Sustainable Development-2020 (ICSTEESD-20) held on 4th - 5th December 2020, Paper ID: 287, ISBN 978-981-16-6878-4 (Vol. 2), https://doi.org/10.1007/978-981-16-6879-1, pp. 79-94, Springer.

Publication@JUET

Publication details google profile link

Journal Publication

1. Sumit Gandhi (2024): “Analysis of Hydraulic Jump Characteristics In U-Shaped Channel”, Civil Engineering Infrastructures Journal, 10.22059/ceij.2024.374899.2046, ISSN: 2322-2093

2. Pandey, S., Murthy, Y.I. and Gandhi, S. (2024): “Prognostication of Half Cell Potential for Slabs Cathodically Protected with AZ91D using explainable and Interpretable Machine Learning", Anti-Corrosion Methods and Materials, Vol. 72 No. 1, pp. 121-133, ISSN: 0003-5599, https://doi.org/10.1108/ACMM-09-2024-3094

3. Pandey, S., Murthy, Y.I. and Gandhi, S. (2024), "Exploring optimization strategies for support vector machine-based half-cell potential prediction", Anti-Corrosion Methods and Materials, Vol. 71 No. 6, pp. 719-732. https://doi.org/10.1108/ACMM-04-2024-3007

4. Sumit Gandhi, Yogesh Iyer Murthy, Ram Pal Singh (2024): “Response Surface Method Approach For Analyzing Flow Characteristics In An Abruptly Expanding Channel”, Proceedings of the Institution of Civil Engineers – Engineering and Computational Mechanics 177(2), 41–54, ISSN:1755-0777, https://doi.org/10.1680/jencm.24.00014

5. Shikha Pandey, Gandhi S. and Murthy Y.I. (2024): “Unveiling Optimal Half-Cell Potentials in RCC Slabs through Cutting-Edge ANFIS, ANN, and Genetic Algorithm Integration”, Anti-Corrosion Methods and Materials, https://doi.org/10.1108/ACMM-01-2024-2950, Volume 71 Issue 5, 491 – 505, ISSN: 0003-5599.

6. Sumit Gandhi (2024): “Empirical Modeling of Flow Characteristics In Suddenly Expanding Channels”, Journal of Applied Fluid Mechanics (JAFM), ISSN: 1735-3572, 17 (4), 857-869, https://doi.org/10.47176/jafm.17.4.2213

7. Prachi Dharmadhikari, Sumit Gandhi (2023): “Effect of Slope Geometry on Energy Dissipation for Stepped Spillway”, Journal of Advanced Engineering Research ISSN: 2393-8447, 10 (1), 35-41.

8. Shikhar Goliya, Sumit Gandhi, Yogesh Iyer Murthy (2023): “Strength Characteristics of Concrete Containing Glycerine as Phase Change Material”, Journal of Advanced Engineering Research ISSN: 2393-8447, 10 (1), 42-47.

9. Sumit Dubey, S. Arunachalam, Sanjeev Gupta, Rajendra Singh, Sumit Gandhi, Nitin K. Samaiya (2023): “Studies on 1:300 Scale Wind Tunnel Simulation of Atmospheric Boundary Layer Characteristics Under Open Terrain Conditions Using a State-of-The-Art Boundary Layer Wind Tunnel”, Proceedings of the 9th National Conference on Wind Engineering. NCWE 2023, Lecture Notes in Mechanical Engineering, Springer Singapore, pp. 145-152, ISSN: 2195-4356, Book DOI: https://doi.org/10.1007/978-981-99-4183-4, Paper DOI: https://doi.org/10.1007/978-981-99-4183-4_14, Online ISBN: 978-981-99-4183-4.

10. Dr. Chandra Sekhar Sharma , Dr. Sumit Gandhi , Dr. Rashmi Yogesh Pai , Dr. Abhinav Priyadarshi Tripathi (2023): “A Descriptive Study Of Salient Features Of New Education Policy 2020 And Its Impact On Education”, Journal of Namibian Studies, 34 S1, 1814-1827 ISSN: 2197-5523 (online), https://namibian-studies.com/index.php/JNS/article/view/3504

11. Sumit Gandhi, Yogesh Iyer Murthy (2023): “Investigations on AZ91D Anodes for Chloride-Induced Corrosion in Reinforced Cement Concrete Slabs, European Chemical Bulletin (ISSN 2063-5346), 12 (S3), 5300 – 5306, DOI: 10.31838/ecb/2023.12.s3.58

12. Sumit Gandhi, Anjan Kumar Dutta, J. Prakash Arul Jose, S.Thenmozhi, S.P.Senthil kumar, Swapnil Balkrishna Gorade (2023): “Mechanical Properties of Self Compacting Concrete With Recycled Coarse Aggregate, European Chemical Bulletin (ISSN 2063-5346), 12 (Si6), 3934 – 3950, doi: 10.48047/ecb/2023.12.si6.348

13. Rawat G., Gandhi S., and Murthy Y.I., (2023): “Durability Aspects of Concrete Containing Nano Titanium Dioxide, ACI Materials, 120 (2), 25-35, DOI: 10.14359/51738490, ISSN: 0889325X

14. Pankaj Dumka, Nitin Samaiya, Sumit Gandhi, Subas Dash, Sumit Dubey, Dhananjay R. Mishra (2023): “Comparative Study of Wind Pressure Variations on Rectangular Buildings Using Python Programming”, The Asian Review of Civil Engineering (TARCE), 11 (2), 15-24, ISSN: 2249 – 6203, DOI: https://doi.org/10.51983/tarce-2022.11.2.3494.

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16. Shikha Pandey, Sumit Gandhi, Yogesh Iyer Murthy (2022): “Effect of addition of sugarcane bagasse ash on half-cell potential of cathodically protected RCC structures subjected to chloride

ingress", Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2023.04.076, Elsevier, ISSN: 2214-7853

17. Rawat G., Gandhi S. and Murthy Y.I. (2022): "A Critical Assessment of Nano Titanium Dioxide on Concrete Properties", ISSN: 1333-9095, Journal of Croatian Association of Civil Engineers, Gradevinar, volume 74 (7), 553-560. DOI: https://doi.org/10.14256/JCE.3291.2021

18. Rawat G., Gandhi S., and Murthy Y.I., (2022): "Influence of Nano-TiO2 on the Chloride Diffusivity of Concrete", Emerging Materials Research, ISSN 2046-0147 | E-ISSN 2046-0155, 11 (4), 1-11, https://doi.org/10.1680/jemmr.22.00056.

19. Rawat G., Gandhi S. and Murthy Y.I. (2022): "Strength and Rheological Aspects of Concrete Containing Nano Titanium Dioxide", Asian Journal of Civil Engineering, Springer, ISSN: 1563-0854, 23 (8), 1197-1208, Springer, https://doi.org/10.1007/s42107-022-00476-2.

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21. Murthy Y.I, Gandhi S. (2021): "Synergic effect of cathodic protection and mineral admixture on the corrosion resistance of reinforcements in concrete", IOP Conf. Series: Earth and Environmental Science, 796, 012005, doi:10.1088/1755-1315/796/1/012005, ISSN: 1755-1315.

22. Murthy Y.I, Gandhi S. and Kumar A., (2020): "Performance Evaluation of AZ91D as Sacrificial Anodes for Chloride Induced Corrosion in Reinforced Cement Concrete Slabs", Interciencia, 45 (9) 44-53, ISSN: 0378-1844.

23. Murthy Y.I, Gandhi S. and Kumar A., (2020): "Assessment of current and potential applications of Magnesium alloys in construction industry", Interciencia, 45 (5), 20-39, ISSN: 0378-1844.

24. Murthy Y.I, Gandhi S. and Kumar A., (2020): "Mg alloy anodes for corrosion prevention of reinforcements in concrete", International Journal on Emerging Technologies, ISSN: 2249-3255, 11 (2), 656-661.

25. Murthy Y.I, Gandhi S. and Kumar A. (2019), "Micro characterization of pure Mg and AZ91D used as sacrificial anodes in reinforced cement concrete" , International Journal of Scientific & Technology Research, 8 (12), 400-403, ISSN: 2277-8616.

26. Murthy Y.I, Gandhi S. and Kumar A. (2019), "Corrosion mitigation of reinforcement in concrete using pure Mg anodes", International journal of Recent Technology and Engineering, 8 (4), 1950-56, ISSN: 2277-3878, DOI:10.35940/ijrte.C6272.118419.

27. Sharma P, Dharmendra and Sumit Gandhi (2019): Route and Mode Choice Analysis for Sustainable Transport Through Multimodal Mobility Pattern In Hill Town of Shimla, JUET Research Journal of Science and Technology, 5(1), 14-26, ISSN: 2321-6026.

28. Murthy Y.I, Gandhi S. and Kumar A. (2018), "Comparative Study of Pure Mg and AZ91D as Sacrificial Anodes for Reinforced Cement Concrete Structures in Chloride Atmosphere", Civil

Engineering Journal, e-ISSN:2476-3055, p-ISSN:2676-6957, 4 (8), 1750-59, DOI: 10.28991/cej-03091110.

29. Murthy, Y. I., Gandhi, S., & Kumar, A. (2018): "Corrosion Prevention of Steel Reinforcement in 7.5% NaCl Solution using Pure Magnesium Anode". In IOP Conference Series: Materials Science and Engineering, 330 (1), 012003, ISSN: 1757-899X, doi:10.1088/1757-899X/330/1/012003.

30. Sumit Gandhi (2018):Effect of Corrugated Bed on Flow Characteristics in Rectangular Open Channel, World Journal of Technology, Engineering and Research (WJTER), open access, 1 (3), 350-358.

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34. Gandhi S (2014): Characteristics of Hydraulic Jump, International Science Index, World Academy of Science, Engineering and Technology, 8 (4), 692-697, ISSN: 2010-3778, doi.org/10.5281/zenodo.1092253, ISNI: 0000000091950263.

35. Gandhi S and Yadav V (2013): 'Characteristics of supercritical flow in rectangular channel', International Journal of Physical Sciences, ISSN 1992 – 1950, (eISSN 2305-3925 | pISSN 2410-4477), 8 (40), 1934-1943, DOI: 10.5897/IJPS2013.4032.

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Conference Publication

1. Sumit Gandhi, Sheeju Selva Roji S, Milan Motta, Ravindra D Nalawade, Maaz Allah Khan, Sivasubramanian Palanisamy (2024): "Analysis of Potential Incorporation of Waste into Asphalt Pavements (MTJ 558): ICMSE conference (3rd International Conference On Materials Science & Engineering Nov 23-25, 2023), Materials Today: Proceedings, Elsevier, ISSN: 2214-7853.

2. Yogesh Murthy, Shikha Pandey and Sumit Gandhi (2023): "Adaptive Neuro- Fuzzy Inference System to Investigate Influence of Sugarcane Bagasse Ash on the Chloride Diffusivity of Mortar", proceeding of 2nd International conference on Recent Advances in Sustainable Environment (RAiSE 2023) May 15 – 16, 2023, Bundelkhand University Jhansi, Materials today Proceedings, Elsevier, ISBN: 978-935607692-1.

3. Prachi Dharmadhikari, Sumit Gandhi (2023): "Effect of Slope Geometry on Energy Dissipation for Stepped Spillway", proceeding of 5th International Conference on Recent

Innovations in Science & Technology (RIST 2023) - 07 & 08 April 2023, ISBN: 978-81-954872-2-6, pp-97, Holy Grace Academy of Engineering, Thrissur, ISET Research, India.

4. Shikhar Goliya, Sumit Gandhi, Yogesh Iyer Murthy (2023): "Strength Characteristics of Concrete Containing Glycerine as Phase Change Material", proceeding of 5th International Conference on Recent Innovations in Science & Technology (RIST 2023) - 07 & 08 April 2023, ISBN: 978-81-954872-2-6, pp-119, Holy Grace Academy of Engineering, Thrissur, ISET Research, India.

5. Sumit Dubey, S. Arunachalam, Sanjeev Gupta, Rajendra Singh, Sumit Gandhi, Nitin K. Samaiya (2023): "Studies on 1:300 Scale Wind Tunnel Simulation of Atmospheric Boundary Layer Characteristics Under Open Terrain Conditions Using a State-of-The-Art Boundary Layer Wind Tunnel", Proceeding of 9th National Conference on Wind Engineering-2023, 3rd- 4th March 2023, BITS Pilani Hyderabad and ISWE India.

6. Shikha Pandey, Sumit Gandhi, Yogesh Iyer Murthy (2022): "Effect of addition of sugarcane bagasse ash on half-cell potential of cathodically protected RCC structures subjected to chloride ingress", Second International Conference on Construction Materials and Structures (ICCMS-2022), Jointly organized by Virginia Tech, NIT Calicut, University of BATH, Monash University,UNSW Sydney, Purdue University and BITS Pilani, during 13-17th December 2022. ISSN: 2214-7853

7. Murthy Y.I, Gandhi S. and Kumar A., (2022): "Crystallographic Study of Solid Solutions In The Mg-Ca-Nd Ternary System at 400°C", Interdisciplinary Innovations and Developments towards Smart and Sustainable Industries, Proceedings of International Conference on Advancements in Interdisciplinary Research, Theme: Smart and Sustainable Society (AIR-2022), 6th - 7th May 2022, River Publishers, e-ISBN: 9788770228282.

8. Rawat G., Gandhi S. and Murthy Y.I. (2021): "Influence on Properties of Concrete Due to Addition of Nano-Titanium Dioxide Particle: A Review Study", ISSN: 2319-4979, International Conference on 'Research & Innovation Perspectives in Engineering (ICRIPE-2021)', Govt. Engineering College Nagpur, 29-31st July 2021, Vidhyabharti International Interdisciplinary Research Journal (Special Issue ISSN: 2319-4979), 219-229. Link: https://www.viirj.org/specialissues/2021/SP2109/Part%204.pdf

9. Murthy Y.I, Gandhi S. (2021): "Synergic effect of cathodic protection and mineral admixture on the corrosion resistance of reinforcements in concrete", International Conference on Community Based Research and Innovations in Civil Engineering (CBRICE-2021), 18-19th March 2021, IOP Conference Series: Material Science and Engineering, Manipal University, Jaipur.

10. Hridesh Kumar Trivedi, Nikita Choudhari and Sumit Gandhi (2020): "Geotextile Filters in Earthen Dam- A Review Study on Construction and Rehabilitation", International Conference on Smart Technologies for Energy, Environment & Sustainable Development-2020 (ICSTEESD-20) held on 4th - 5th December 2020, Paper ID: 287, ISBN 978-981-16-6878-4 (Vol. 2), https://doi.org/10.1007/978-981-16-6879-1, Springer.

11. Murthy Y.I, Gandhi S. and Kumar A., "On the critical Assessment of Sugarcane Bagasse Ash as an Ingredient of Concrete", National Conference on Recent Development in Cement Composites, (RDCC-2018), Hyderabad, pp. 141-146, Institution of Engineers (IEI), Telengana State Centre, 24-25th Aug. 2018.

12. Sumit Gandhi, Anukrati Joshi, Sapana Jaiswal and Santosh Sharma (2018): Stepped Cascade As An Energy Dissipator: A Survey And Perspective, 33rd Indian Engineering Congress 21st-23rd Dec 2018, The Institution of Engineers (India) Udaipur, CV/053/10, 141-145, ISBN NO: 978-81-938404-9-8.

13. Shiva Shankar Y, Sumit Gandhi, Nitin Samaiya and Devendra Mohan (2018): 'Electrical based Approaches in Defluoridation', IEEE International Conference, Recent Advances in Engineering, Technology and Computational Sciences (RAETCS-2018) held during 06 – 08 Feb, 2018 at SHUATS, Allahabad, Paper ID-134.

14. Sumit Gandhi, Kirtika Sachdeva, Mudit Khandelwal, Rajesh Rai, Vikram Singh, Sudeep Srivastava, Surya Pratap Meena (2017): 'Flow Behavior Over Ogee And Stepped Spillway Under Different Flow Conditions: An Empirical Approach', Proceedings of The 37th IAHR World Congress, 13th-18th August 2017, Kuala Lumpur, Malaysia, IAHR, 1192-1199, ISSN: 2521-716X (Online), 2521-7119 (Print), 2521-7127 (USB).

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