



Atria Institute of Technology

Department of Civil Engineering

Centre of Excellence Details

Currently, the department having COE in which doctorate faculties with the expertise in environmental engineering and water resources are involving and guiding students.

Department is having there faculties with doctoral degrees, out of these, two have been registered as PhD guides in VTU.

S. No.	Name	Specialization	Research areas	Email ID
1	Dr. L Udaya Simha	Environmental Engineering	Water Resources and Environmental Engineering	civilhod@atria.edu
2	Dr. Surendra H J	Water Resources Engineering and Management	Soft Computing, Hydrological Modelling	surendra@atria.edu
3	Dr. Rahul Dandautiya	Environmental Engineering	Leaching studies, Material Characterization, and valorization, Life Cycle Assessment	rahul.d@atria.edu

Publication:

Faculties at the civil engineering department participate actively in various national and international conferences to present their research articles. They are also working actively to publish research articles in reputed peer-reviewed SCI/ SCIE, ESCI, and Scopus index journals.

Department has an H Index of 6 and an I-10 index of 4 with 44 publications (29 in journals, 12 in the conference, and three book chapters).

Funding:

Departmental faculties are consistently writing a proposal to various funding agencies.

Details of Funding received

VTU Rs 10,000

KSCST Rs 16,500

Other UG Project funding Rs 15,000

AICTE - SPICES Proposal Rs 1,00,000

Total Funding Rs 1,41,500

Publication through COE work

Sl No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISBN/ISS N
1	Economic design of alternative system to reduce the water distribution losses for sustainability	H. J. Surendra, B. T. Suresh, T. D. Ullas, T. Vinayak, Vinay P. Hegde	Applied Water Science, Springer International Publishing	21 June 2021	2190-5495



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2	Pressure Settlement Behaviour of Strip Footing Resting on Unreinforced and Tire Chips Reinforced Copper Slag.	Gill, G., Mittal, R.K. and Dandautiya, R.,	KSCE Journal of Civil Engineering	2020	1976-3808
3	Prioritization of sub-watersheds of the Kanakapura Watershed in the Arkavathi River Basin, Karnataka, India- using Remote sensing and GIS	Hema hc , Govindaiah S , Lakshmi Srikanth & HJ Surendra	Geology, Ecology, and Landscapes, Taylor & Francis online Journal	29 Dec 2020.	2474-9508
4	Experimental Study and Calibration of Hydraulic Coefficients using Vertical Orifice	R. Tejaswini and H. J. Surendra	Hydrological Extremes, Water Science and Technology Library, Springer	8 Nov 2020	978-3-030-59147-2
5	Fuzzy and Improved fuzzy wavelet approach in modeling municipal residential water consumption estimation using climatic variables	H.J. Surendra, Paresch Chandra Deka	Journal of soft computing Springer, SCI Index, IF: 2.70	May 2020	24:11213-11222,
6					
7	Utilization potential of fly ash and copper tailings in concrete as partial replacement of cement along with life cycle assessment	Rahul Dandautiya	Science direct, Elsevier, Waste Management	November 2019	Volume 99, Pages 90-101.
8	Sustainable utilization of waste tire-chips reinforced copper tailings as structural fill	Rahul Dandautiya	Environment, Development and Sustainability	6/18/2019	1387585X , 15732975
9	Analysis and Assessment of solid waste management through Field approach	Hema H C, H J Surendra, Nagasahadevaredy k.	International Journal of Innovative research in science , Engineering and Technology	2/1/2019	2319-8753 ISSN
10	Feasibility study of a new approach to removal of nitrates from groundwater by Biological Denitrification	Priyankashri K N., Surendra H J.	International Journal of Advanced Engineering Research and Science	1/1/2019	2349-6495(P) 2456-1908(O)



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Book Chapter

Sl No	Title of the book/chapters published	Name of the author/s	Year of publication	ISBN	Affiliating Institute	Name of the publisher	Relavant link
1	Utilization Potential of Iron Ore Tailing Waste in Various Applications	S. R. BharathN. Lavanya H. B. Bharath Kumar R. K. Chaitra and Rahul Dandautiya	2021	978-981-336-695-4	ATRIA IT	Springer, Advances in Energy and Environment Scopus Index Book Chapter	https://www.springer.com/gp/book/9789813366947
2	Life-Cycle Assessment of Production of Concrete Using Copper Tailings and Fly Ash as a Partial Replacement of Cement	Rahul Dandautiya	4/1/2020	978-981-15-3361-7	ATRIA IT	Springer, Advances in Construction materials, Scopus Index Book Chapter	https://link.springer.com/chapter/10.1007/978-981-15-3361-7_6

Conference publication

Sl. No.	Name of the Authors	Title of the paper	Title of the proceedings of the conference	National / international	Year of publication
1	Bharath, S. R., Lavanya, N., Bharath, K.H.B., Chaitra, R.K., Dandautiya R.	Utilization potential of iron ore tailing waste in various applications,	International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2020), Amity University Uttar Pradesh, Noida, India,	International	20-21 August 2020.
2	H.J. Surendra, Md.Qaiser Junaid	Precipitation overflow demonstration and rainfall-runoff modeling by regression analysis: A case study	AIP Publishing Series	International	Jan 2020
3	Ganesh S.P., Surendra H	Feasibility study for optimal cropping pattern for available water in the distributary of an irrigation system	AIP Publishing	International	Jan 2020



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4	Surendra H J Tejaswini R,	Study of Stand-Alone Solar Panel Roof – Design and Construction, Uniqueness and Challenges	International Conference on Recent advances on Renewable energy at NITK, SURATHKAL	International	Feb 2020
5	Kavya B M ., Surendra H J	Estimation of design flood at a reservoir (outlet) by CWC based hydrometeorological approach	AIP Conference proceedings	International	Jan 2020
6	Rahul Dandautiya	Life cycle assessment of production of concrete using copper tailings and fly ash as a partial replacement of cement	Advances in Sustainable Construction Materials	National	Pp 75-85, 2019