

Bio-Data

DR. LAXMIKANT YADU

Corresponding Address

Professor,
Civil Engineering Department,
NIT, Raipur, (www.nitr.ac.in)
Chhattisgarh (India) 492010

Residential Address

Dr. L. K. Yadu
93/5, Nehru Nagar (East)
Bhilai, Dist: Durg, C.G. (India) -
4920020



Phone: +91- 9425216529, **E-mail –** lkyadu.ce@nitr.ac.in, lkyadu78@gmail.com

EDUCATION QUALIFICATION:

Degree	Institute	Board/University	Year of Passing	Grade/ Percentage
Ph.D (Doctor of Philosophy)	National Institute of Technology Raipur, G.E. Road Raipur http://www.nitr.ac.in	National Institute of Technology Raipur, G.E. Road Raipur	7 th Nov.2014	-
Master's (M.Tech. in Geotechnical Engineering)	Indian Institute of Technology (IIT), Delhi, India http://www.iitd.ac.in	Indian Institute of Technology, Delhi, India	2005	7.95 (Scale of 10)
Bachelor's (B.E. in Civil Engineering)	Government Engineering College (GEC), Raipur, Now known as National Institute of Technology (NIT), Raipur, Chhattisgarh, India http://www.nitr.ac.in	Pt. Ravi Shankar Shukla University, Raipur, Chhattisgarh, India	2001	72.12
Higher Secondary Examination (12 th Standard)	Saraswati Higher Secondary (S.H.S.) School, Bagbahara, Chhattisgarh, India	Board of Secondary Education, Bhopal, Madhya Pradesh, (M. P. Board), India	1996	73.55
High School Examination (10 th Standard)	S.H.S. School, Bagbahara, Chhattisgarh, India	M. P. Board, India	1994	87.07

PUBLICATION DETAILS LINK:

ORCID:<https://orcid.org/0000-0002-4838-1872>

Scopus details: <https://www.scopus.com/authid/detail.uri?authorId=55988856700>

Research Gate:https://www.researchgate.net/profile/Laxmikant_Yadu

Google

[:https://scholar.google.com/citations?authuser=1&user=8MCagSYAAAAJ](https://scholar.google.com/citations?authuser=1&user=8MCagSYAAAAJ)

Scholar

PublonsWeb of Science ResearcherID:AAP-9091-2021

	All	Since 2021
Citations	1009	675
h-index	14	14
i-10 index	18	16

Assessed on 25.07.2026 directly from the site

<https://scholar.google.com/citations?user=8MCagSYAAAAJ&hl=en>

PATENT

1. “Composition and Process for Preparation of Sub-Base Material for Mine Haul Road Construction”

Name of Inventor: Tarun Kumar Rajak, Laxmikant Yadu

Application Number: 201921049347

Date of Filing: 01.12.2019

Date of Publication: 03.01.2020

Status: Granted

Date of Grant: 08.03.2022

Patent No. 391465

2. A composition and method of preparation of microbially stabilized coal overburden soil for sub-base material.

Name of Inventor: Atul D. Gautam, Laxmikant Yadu

Date of hearing: 25.04.2025

Date of filing: 14.05.2024

Publication date: 28.06.2024

Application No. 202421037907 A

Date of Grant: 24.11.2025

Patent No. 574372

3. A process for slope stability and embankment stabilization using guar gum.

Name of Inventor: Rakesh Pyadi, Laxmikant Yadu, Sandeep Kumar Chouksey

Date of filing: 09.05.2024

Publication date: 21.06.2024

Application No. 202421036669 A

Status: Granted

Date of Grant: 28.08.2025

Patent No. 570165

4. A composition and process for Stabilizing the sub-grade layer of pavement utilizing xanthanGum biopolymer

Name of Inventor : Rakesh Pyadi, Laxmikant Yadu, Sandeep Kumar Chouksey

Date of filing: 14.05.2024

Publication date: 30.08.2024

Application No. 202421037906 A

BOOK CHAPTER

1. Geotechnical Characteristics of Soils and Rocks of India, International, CRC Press / Balkema, Taylor & Francis Group London, Published on 31st December 2021, 742 pages, ISBN 9781032010984, Pub. Location: London
<https://doi.org/10.1201/9781003177159>,
Authors: Laxmikant Yadu, Sunny Deol Guzzarlapudi, Mahasakti Mahamaya, Arun Bhave

SPONSORED R&D PROJECTS (Completed):

1. “Performance Evaluation of the roads constructed using TerraZyme in the State of Chhattisgarh under PMGSY” by National Rural Infrastructure Development Agency Ministry of Rural Development Government of India of amount Rs 18.14 Lakhs for 18 months awarded in 28th April 2023
2. “Performance Evaluation of some Selected PMGSY Roads sections in the state of Chhattisgarh” Funded by National Rural Road Development Agency, New Delhi of amount 41.89 Lakhs - awarded in 15th October 2015
3. “Construction of Low Volume Roads on Soft Subgrade Soil Improved by Locally Available Marginal Materials” Funded by Human Settlement Management Institute - Housing and Urban Development Corporation (HSMI-HUDCO), New Delhi for two year of Amount 25.0 Lakhs – Awarded in Feb 2014.
4. “Improving soft subgrade for the construction of low volume roads using locally available materials” Sponsored by Chhattisgarh Council of Science and Technology, Government of Chhattisgarh for two years of Amount 2.0 Lakhs. - Awarded in March 2012.

PAPER PUBLISHED IN INTERNATIONAL / NATIONAL JOURNALS

1. Mishra, A., Yadu, L.K., & Adhikary, S. (2026) “A Grey Wolf Optimized Deep Learning Framework for Robust Prediction of Subgrade Resilient Modulus”. *Transportation Infrastructure Geotechnology*, 13, 69.
<https://doi.org/10.1007/s40515-026-00842-6>. [ISSN: 2196-7202]
2. Gangiseti, S., Guzzarlapudi, S. D., & Yadu, L. (2025). Development of an alternate testing scheme for the structural evaluation of flexible pavements using

- non-destructive testing devices. *International Journal of Pavement Engineering*, 26(1), paper id: 2539472. Received 17 Apr 2024, Accepted 21 Jul 2025, Published online: 01 Aug 2025. <https://doi.org/10.1080/10298436.2025.2539472> ISSN: 1029-8436 (Print) 1477-268X
3. Chandnani, S., Yadu, L. K., Thomas, Ansu. (2025) “Plant-Based Soil Stabilization: A Journey Towards Sustainability—A Review”. *Indian Geotechnical Journal*. (Accepted on 5th Aug 2025) Received: 12 April 2025 / Accepted: 5 August 2025 published 23 August 2025. <https://doi.org/10.1007/s40098-025-01374-5>
 4. Pydi Rakesh, Yadu L.K and Chouksey S.K, (2025) An approach to predicting resilient modulus of biopolymer-treated soil using artificial intelligence – machine learning techniques, *Indian Geotechnical Journal– 2025 ESCI*
 5. Pyadi, R., Yadu, L., Chouksey, S.K. (2024) “A novel prediction of strength properties of biopolymer treated soil: A response surface approach”. *Transportation Infrastructure Geotechnology*. Vol 11, Issue No. 4, pp 2523-2545 (Accepted on 29th Feb 2024, published 19th March 2024) DOI: [10.1007/s40515-024-00384-9](https://doi.org/10.1007/s40515-024-00384-9) [Q2] [ISSN: 2196-7202]
 6. Premjani, R., Yadu, L.K., Bajaj, P. (2024) “Experimental and Numerical Study of Laterally Loaded Vertical and Batter Piles in Sandy Soil Conditions”. *Multiscale and Multidisciplinary Modeling, Experiments and Design*. Vol 7, pages 2731-2739 (SCOPUS) accepted 30th Dec 2023, Published 10th February 2024. <https://doi.org/10.1007/s41939-023-00363-6> [ISSN: 2520-8179]
 7. Mishra A., Mali P.B., Padade A.H. and Yadu L.K., (2024) A study on impact of non-woven Geotextile on floating stone column, *Lecture notes in civil engineering* 626, springer nature Singapur.
 8. Pyadi, R., Yadu, L., Chouksey, S.K. (2023) “Evaluation of Xanthan and Guar gum for stabilizing soil in terms of strength parameters - A review”. *Indian Geotechnical Journal*. Vol. 54 (4), pages 1621-1643 (Accepted 19th Oct 2023 & Published in 19th Nov 2023) <https://doi.org/10.1007/s40098-023-00803-7> [Q2] [ISSN: 2277-3347]
 9. Premjani, R., Yadu, L.K., Bajaj, P. (2023) “Response of Vertical and Batter Piles under Combined Lateral and Vertical Loading Conditions in Sandy Soil”. *Multiscale and Multidisciplinary Modeling, Experiments and Design*. Vol 7, pages 2241-2258 (SCOPUS). Accepted 27th Nov 2023, Published online 31st December 2023 <https://doi.org/10.1007/s41939-023-00328-9> [ISSN: 2520-8179]
 10. Rajak, T.K. Yadu, L.K. (2023) “Assessment of mine overburden dump stability using numerical modelling” book Chapter *Geoenvironmental and Geotechnical Issues of Coal Mine Overburden and Mine Tailings* published by Springer Nature. Book Chapter ID: GGICOMT_06.
 11. Yadu, L.K., Bajaj, P., Premjani, R. (2022) “Study on Vertical Batter Piles and Pile Groups under uplift Load Conditions in Non-Cohesive Sub-soil” *IOP Conf. Series: Earth and Environmental Science* 982 (2022) 012052 pp 1-11. (Published March 2022) (doi:10.1088/1755-1315/982/1/012052) (ISSN: 1755-1315)
 12. Premjani, R., Yadu, L.K., Bajaj, P. (2022) “A Comparative Study of Vertical and Batter Piles under Lateral Loading Conditions: A Review” *IOP Conf. Series:*

- Earth and Environmental Science 982 (2022) 012045 pp 1-8. (Published March 2022) (doi:10.1088/1755-1315/982/1/012045) (ISSN: 1755-1315)
13. Gautam A. D., Yadu, L. K., (2021). "Study on the Characteristics of Overburden Dump of the Coal Mines" *Transportation, Water and Environmental Geotechnics, Lecture Notes in Civil Engineering* 159, Springer, Singapore. Online ISBN 978-981-16-2260-1, First online 3rd August 2021. (DOI: https://doi.org/10.1007/978-981-16-2260-1_6)
 14. Rajak, T. K., Mishra, A., Yadu, L.K., (2021) "Effect of GGBS on Strength Characteristics and Stability of Pond Ash Mixed Soil Embankment" *IOP Conf. Series: Earth and Environmental Science* 982 (2022) 012049 pp 1-11. (Published March 2022) (doi:10.1088/1755-1315/982/1/012049) (ISSN: 1755-1315)
 15. Rajak, T. K., Yadu, L., Chouksey, S. K. (2020). "Strength Characteristics and Stability Analysis of Ground Granulated Blast Furnace Slag (GGBFS) Stabilized Coal Mine Overburden-Pond Ash Mix" *Geotechnical and Geological Engineering - An International Journal Springer* (38), 663-682. ISSN 1573-1529 (electronic) 0960-3182 (Print) (ESCI) **38**, pages 663–682 (2020) published on 12th September 2019. (DOI: [10.1007/s10706-019-01056-z](https://doi.org/10.1007/s10706-019-01056-z)) Received 27 March 2019 / Accepted: 5 September 2019 (Publisher : Springer Nature Switzerland AG 2019) [Q2]
 16. Tarun Kumar Rajak, Laxmikant Yadu, Sandeep Kumar Chouksey (2020). "Effect of fly ash on geotechnical properties and stability of coal mine overburden dump: an overview. *SN Applied Sciences*, 2:973. Springer (ESCI) <https://doi.org/10.1007/s42452-020-2803-3>. Received: 27 September 2019 / Accepted: 22 April 2020, published online 27th April 2020 © Springer Nature Switzerland AG 2020
 17. Rajak, T. K., Yadu, L., Dewanagn P. K. (2020). "Strength Characteristics and Stability Analysis of GGBS Stabilized Fly Ash-Overburden Dump" *International Journal of Mining, Reclamation and Environment* (NSME), Volume 34, Issue 9, pp 1-24. Taylor & Francis ISSN: 1748-0930, E-ISSN: 1748-0949 Accepted (SCIE) on 18th September 2019. <https://doi.org/10.1080/17480930.2019.1670327>.
 18. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2019), "Application of Taguchi Method for Optimization of Various Factors in Improving the Shear Modulus of Enzyme Treated Soil", *National Academy Science Letters (SCLE) Springer*. volume 34, No. 2, **2020**, pp. 171-175 Accepted (SCI-E) on 5th August 2019. ISSN 2250-1754. (DOI: [10.1007/s40009-019-00833-x](https://doi.org/10.1007/s40009-019-00833-x))
 19. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2019), "Alkali-activated GGBS and Enzyme on the swelling properties of sulfate bearing soil", *Geomechanics and Engineering- An International Journal, Technopress*. Vol. 19, No. 1 (2019) pp 21-28 (SCI-E) Accepted on 25th August 2019. ISSN 2005-307X Impact factor 2.594. (DOI: <https://doi.org/10.12989/gae.2019.19.1.021>) [Q2]
 20. Bajaj P., Yadu L.K. and Chouksey S.K. (2019). "Behavior of Vertical and Batter Piles Under Lateral, Uplift and Combined Loads in Non-Cohesive Soil" *Innovative Infrastructure Solutions* 4:55, Springer. ISSN: 2364-4176 (print version) [Q2] ISSN: 2364-4184 (electronic version) (ESCI) <https://doi.org/10.1007/s41062-019-0242-z> published online 22nd October 2019.
 21. Bajaj P., Yadu L.K. and Chouksey S.K. (2019). "Study on vertical and batter piles subjected to lateral loads in different non-cohesive sub-soil conditions" *International*

- Journal of Geotechnical Engineering*, Taylor & Francis. Volume 14, issue 6, 2020 ISSN 1939-7879. [Q2] <https://doi.org/10.1080/19386362.2018.1564181>. Published online 2nd Jan 2019.
22. Maliwal S., Verma, M.K., Yadu L.K. and Murmu M. (2019). "Estimation of Runoff Potential by the Application of Curve Number Method in GIS Platform" *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume- 8 Issue-6, August 2019 (Scopus). DOI: 10.35940/ijeat.F9174.088619
 23. Maliwal S., Verma, M.K., Yadu L.K. and Murmu M. (2019). "Multi-Reservoir Flood Control Operation by Optimization Technique: A Review" *International Journal of Engineering Research & Technology (IJERT)*, Vol. 8 Issue 08, August-2019. ISSN: 2278-0181.
 24. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2018), "A Laboratory Investigation of Soil Stabilisation using Enzyme and Alkali Activated Ground Granulated Blast Furnace Slag", *Arabian Journal for Science and Engineering*, **43**, pages 5193–5202 (2018), <https://doi.org/10.1007/s13369-017-3033-x> (SCI)
 25. Rajak, T. K., Yadu, L., Chouksey, S. K., & Dewangan, P. K. (2018). "Stability analysis of mine overburden dump stabilized with fly ash". *International Journal of Geotechnical Engineering*, Volume 15, 2021, Issue 5, pp., 1-11. ISSN 1939-7879 <https://doi.org/10.1080/19386362.2018.1503780>. [Q2]
 26. Verma, M.K., Verma, M.K., Yadu, L.K. and Murmu Meena. Drought Analysis in the Seonath River Basin using Reconnaissance Drought Index and Standardised Precipitation Index. *International Journal of Civil Engineering and Technology*. 2016: 7 (6): 714-719.
 27. Verma, M.K., Verma, M.K., Yadu, L.K. and Murmu Meena. A study on Calibration of a Hydrological Model and Sensitivity analysis of its parameters: A case study of a Seonath River Basin, Chhattisgarh, India. *Current Science Journal*. (under 2nd review).
 28. Verma, M.K., Verma, M.K., Yadu, L.K. and Murmu Meena. A Study of Climate Change Impact on Precipitation of Sheonath River Basin. *Indian Journal of Science and Technology*, Vol 10(11), DOI: 10.17485/ijst/2017/v10i11/104361, March 2017. (Scopus Index with Fee). ISSN 0974-5645
 29. Mani Kant Verma, M. K. Verma, L.K. Yadu, Meena Murmu (2016), "Drought Analysis in the Seonath River Basin Using Reconnaissance Drought Index and Standardised Precipitation Index", *International Journal of Civil Engineering & Technology (IJCET)* Volume 07, Issue 6: 714-719 (ISSN 0976-6308)
 30. Mani Kant Verma, Dr. M. K. Verma, Dr. L.K. Yadu, Meena Murmu, "Calibration and Sensitivity analysis of a Hydrological Model for Seonath River Basin, Chhattisgarh, India", submitted to IJAER Scopus Indexed Journal.
 31. Thomas A., Tripathi R.K. and Yadu L.K. (2016) "Soil Stabilisation using Terrasil", *International Journal of Earth Sciences and Engineering*, Vol. 09 No.02, (ISSN 0974-5904) (Scopus Indexed)
 32. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2016), "Effect of Enzymes on the Unconfined Compressive Strength of Soil", *International Journal of Applied Engineering Research*, Vol.11 No.10. (ISSN 0973-4562), (Scopus Indexed)
 33. Deepak Ranjan Rath, Manikant Verma, L.K. Yadu (2016) "Application of SCS-CN method in Sheonath basin", *International Journal of Scientific Progress and Research* – (Accepted with fee)
 34. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2016), "Variation in shear modulus of enzyme treated soil under cyclic loading", *Geotechnical Special Publication, GeoChina 2016*

- American Society of Civil Engineers*, Behavior of Geomaterials and Foundations for Civil Infrastructure Applications: pp. 88-95 doi: 10.1061/9780784480021.012
35. Yadu L.K. and Tripathi R.K. (2015). "Response of Circular Footing on New Key Engineering Material - Granulated Blast Furnace Slag as Structural Fill" International Journal of Advanced Materials Research, Trans Tech Publications, Switzerland, Vol 1119, pp 726-730. (ISSN 1662-8985) (doi:10.4028/www.scientific.net/AMR.1119.726).
 36. Yadu L.K. and Tripathi R.K. (2013). "Effectiveness of Granulated Blast Furnace Slag over Sand as Overlay for the Stabilization of Soft Clay" International Journal of Advanced Technology in Civil Engineering, Volume-2, Issue-2, pp 22-27. (ISSN: 2231 – 5721, Available online at http://interscience.in/ijatce_vol2Iss2.html).http://interscience.in/IJATCE_Vol2Iss2/32-37.pdf
 37. Yadu L.K. and Tripathi R.K. (2013). "Stabilization of Soft Soil with Granulated Blast Furnace Slag and Fly Ash" International Journal of Research, Engineering and Technology, Volume 2, Issue 2, pp115-119. (ISSN: 2319-1163, available online at <http://www.ijret.org/>)
 38. Yadu, L.K., Tripathi, R.K., and Singh, D.V. (2011). "Laboratory Performance Evaluation of Stabilized Black Cotton Soil with Rice Husk Ash," Journal of Chhattisgarh Swami Vivekanand Technical University Bhilai, Volume 4, No. 1, pp 50-55. (ISSN 0974-8725).
 39. Singh D.V., Reddy, S.K., and Yadu, L.K. (2011). "Moisture and Compaction Based Statistical Model for Estimating CBR of Fine Grained Subgrade Soils," International Journal of Earth Sciences and Engineering, Volume 04, No. 06 SPL, pp 100-103. (ISSN 0974-5904). Scopus Journal Rating (SJR) 0.103; CSIR-NISCAIR, INDIA Impact Factor 0.042; Indexed in- Scopus Compendex and Geobase (products hosted on Engineering Village) Elsevier, Amsterdam, publishing by CAFET-INNOVA Technical Society (CITS), Hyderabad, INDIA. (Scopus indexed)
 40. Yadu, L.K., Tripathi, R.K., and Singh, D.V. (2011). "Comparison of Fly Ash and Rice Husk Ash Stabilized Black Cotton Soil," International Journal of Earth Sciences and Engineering, Volume 04, No. 06 SPL, pp 42-45. (ISSN 0974-5904). (Scopus Indexed)

PAPER PUBLISHED IN GEOTECHNICAL SPECIAL PUBLICATION-ASCE

1. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2016), "Variation in shear modulus of enzyme treated soil under cyclic loading", *Geotechnical Special Publication, GeoChina 2016 American Society of Civil Engineers*, Behavior of Geomaterials and Foundations for Civil Infrastructure Applications: pp. 88-95 doi: 10.1061/9780784480021.012.
2. Yadu L.K. and Tripathi R.K. (2014). "Effect of Depth and Number of Layers of Reinforcement on Bearing Capacity Ratio of Strip Footing Resting on Granulated Blast Furnace Slag Reinforced with Geogrid" in Geo-Congress 2014: Geo-characterization and modeling for sustainability, *Geotechnical Special Publication No. 234, ASCE pp 3605-3614*
3. Tripathi R.K. and Yadu L.K. (2014). "Effect on Bearing Capacity Ratio of Strip Footing for Various Granular Fill Thickness and Number of Geogrid Layers in Granular Fill Overlay on Soft Soil " in Geo-Congress 2014: Geo-characterization and modeling for sustainability, *Geotechnical Special Publication No. 234, ASCE pp 2503-2512*.

PAPER PUBLISHED IN PROCEEDIA ENGINEERING-ELSEVIER

1. Ansu Thomas, R. K. Tripathi, L. K. Yadu (2016), Variation in Damping Ratio of Enzyme Treated Soil, Special Section on: Current Research Topics in Power, Nuclear and Fuel Energy, SP-CRTPNFE 2016, from the International Conference on Recent Trends in Engineering, Science and Technology 2016, 1 June 2016, Hyderabad, India, pp 8-13 (Conference / Elsevier Energy Procedia)
2. Yadu L.K. and Tripathi R.K. (2013). "Effect of the Length of Geogrid Layers in the Bearing Capacity Ratio of Geogrid Reinforced Granular Fill-Soft Subgrade Soil System" *Procedia - Social and Behavioral Sciences*, Elsevier, Volume 104, pp 225-234. (ISSN: 1877-0428). (Scopus Indexed)
3. Yadu L.K., Tripathi, R.K. (2012). "Effects of Granulated Blast Furnace Slag in the Engineering Behavior of Stabilized Soft Soil" *Elsevier Procedia Engineering* 51(2013)125-131.(ISSN: 1877-7058) (Scopus Indexed)

PAPER PUBLISHED IN INTERNATIONAL / NATIONAL CONFERENCES

1. Mishra, A., & Yadu, L.K. (2026) "Dynamic Behavior of Clay-Rubber Soils: A Probabilistic Approach Using Index Test and Empirical Model". *GeoVadis: The Future of Geotechnical Engineering*, Juneja, Joseph and Murty (Eds), © The Author(s), ISBN: 978-1-041-08554-6. <https://doi.org/10.1201/9781003645955-57>
2. Khandey V.K. and Yadu L.K. (2026). International Conference on Ground Engineering & Sustainable Infrastructure (ICGESI-2026): Innovations in Sustainable Materials and Infrastructure, organized by NIT Hamirpur, Himanchal Pradesh
3. Verma N., Goel, A., Yadu, L. K., and Murty, D. S. (2025) "Seepage and Stability Analysis of Ash Dyke: A Case Study" Springer Nature Singapore Pte Ltd. 2025 A. Mishra and A. Tyagi (eds.), *Geo-environmental Engineering and Unsaturated Soil Mechanics*, Lecture Notes in Civil Engineering 678, https://doi.org/10.1007/978-981-96-8484-7_
4. Rathore M., Yadu, L.K., (2025) "Assessment of liquefaction susceptibility of Mahanadi river sand amended with Biochar" International Conference on Smart Materials and Sustainable Solutions for Climate Resilience (SMSSCR 2025). August 2-4, 2025, by National Institute of Technology Meghalaya, India.
5. Mishra, A. Yadu L.K. (2025) "Dynamic behavior of clay-rubber Soils: A probabilistic approach using index test and Empirical model; Geotech Asia 2025, organized by IIT Bombay, IGS and ISSME from 7th -10th October 2025 at Goa, India.
6. Pydi Rakesh, Ashish Mishra, Yadu L.K and Chouksey S.K (2025), Stabilization of an Embankment Soil with Guar Gum Biopolymer: An Eco-friendly Solution, Geotech Asia 2025, organized by IIT Bombay, IGS and ISSME from 7th -10th October 2025 at Goa, India.
7. Mishra, A. Yadu L.K. and Adhikary S. (2025) " Experimental Investigation and reliability assessment of Dynamic soil properties of clay treated with GGBFS, Fly ash and Silica Fume", Indian Geotechnical conference 2025 organized by NIT Jalandhar,

IGS Jalandhar Chapter at NIT Jalandhar, Punjab, India from 18th to 20th December 2025.

8. Khewar, L. and Yadu L.K. (2025) “ seepage and slope stability analysis under rainfall condition a case study of kharkhara dam”, Indian Geotechnical conference 2025 organized by NIT Jalandhar, IGS Jalandhar Chapter at NIT Jalandhar, Punjab, India from 18th to 20th December 2025.
9. Mishra, A. Yadu L.K. (2025) “Dynamic properties of soil: A Comprehensive review on shear modulus and damping ratio of soil mixtures using cyclic triaxial apparatus” 10th IYGEC organized by IIT Indore and IGS Indore chapter 2025 at Indore, India.
10. Mahto, B., Yadu, L., & Guzzarlapudi, S. D. (2025). “Geomaterial Characterization: Potential Use of Coal Washery Rejects as Sustainable Geomaterial: Review of Properties and Research Challenges” Indian Geotechnical Conference Jalandhar 2025 organized by NIT Jalandhar, IGS Jalandhar Chapter at NIT Jalandhar, Punjab, India from 18th to 20th December 2025.
11. Pydi Rakesh, Hari Naga Prasad Ch, Sunny D.G, Yadu L. K. and Chouksey S.K, (2025) Geotechnical characterisation of coal washery rejects for pavement substructure material, *TIPCE* – Roorkee, from 18th to 21st September 2025 at IIT Roorkee.
12. Pyadi, R., Yadu, L. K., Chouksey, S.K. (2024) “Application of Guar gum biopolymer in geotechnical engineering practices: A new sustainable approach” Indian Geotechnical Conference 2024 (IGC 2024), organizing by MIT Chhatrapati Sambhajanagar (Aurangabad), IGS Aurangabad Chapter, INDIA during Dec 19 - 21, 2024. (Accepted).
13. Mahto, B., Yadu, L. K., Deol, S. (2024) “Slope Stability Analysis for High Embankment Roads: A Review” Indian Geotechnical Conference 2024 (IGC 2024), organizing by MIT Chhatrapati Sambhajanagar (Aurangabad), IGS Aurangabad Chapter, INDIA during Dec 19 - 21, 2024. (Accepted).
14. Mishra, A., Mali P. B., Padade, A.H., Yadu, L. K., (2024) “A Study on Effect of Non-Woven Geotextile on Floating Stone Column” Indian Geotechnical Conference 2024 (IGC 2024), organizing by MIT Chhatrapati Sambhajanagar (Aurangabad), IGS Aurangabad Chapter, INDIA during Dec 19 - 21, 2024.
15. Yadu, L.K., and Deol S. (2024) “Lessons Learned from Forensic Investigation of Distressed Reinforced Soil Wall”, Workshop on Reinforced Soil Wall: Distresses and Remedies CBIP at New Delhi, 5th - 6th April 2024.
16. Ratre. U. and Yadu, L.K., (2024) “Investigation of Utilization of Fly Ash in Construction of Earthen Embankment Dam, Indian Power Stations – 2024 & M Practices for Safe, Reliable and Cost-Effective Power Generation 13th-15th February 2024, Raipur, Chhattisgarh, Conducted by National Thermal Power Corporation at Raipur, Chhattisgarh, India.
17. Ratre. U. and Yadu, L.K., (2024) “Seepage and Stability Analysis of An Earthen Dam by Replacing Clay with Fly Ash as Core Material: An Environmental Friendly Approach”, International Conference on Soil Mechanics and Structures (ICSMS-24), Organized by World Academics during 22nd – 23rd March 2024 at Kuala – Lumpur, Malaysia.
18. Ratre. U. and Yadu, L.K., (2024) “Seepage and Slope Stability Analysis of Earthen Dam Embankment with Sensitivity and Probabilistic Analysis” 19th Chhattisgarh Young Scientist Congress (CYSC) will be jointly organized by the National Institute of Technology Raipur (NIT Raipur) and Chhattisgarh Council of Science & Technology (CCOST) from 26th to 27th February 2024.

19. Satyanandam, G., Guzzarlapudi, S. D., & Yadu, L. (2023, December). Assessment of Robustness of Backcalculation Tool in Capturing Pavement Moduli Using FWD Device. In *Conference of Transportation Research Group of India* (pp. 321-336). Singapore: Springer Nature Singapore.
20. Gautam Atul D., Yadu, L.K. (2020) "Study on the Characteristics of Overburden Dump of the Coal Mines" Indian Geotechnical Conference 2020 Developments In Geotechnical Engineering For Sustainable Tomorrow (DIGEST) from 17th Dec to 19th Dec 2020, Indian Geotechnical Society Visakhapatnam Chapter in association with Department of Civil Engineering College of Engineering, Andhra University Visakhapatnam - 530 003 Andhra Pradesh, India.
21. Gautam A. D., Yadu, L. K., (2021). "Study on the Characteristics of Overburden Dump of the Coal Mines" Transportation, Water and Environmental Geotechnics, Lecture Notes in Civil Engineering 159, Springer, Singapore. Online ISBN 978- 981-16-2260-1, First online 3rd August 2021.
22. Yadu, L.K., (2023) "Slope Stability Analysis of ATamta Earthen Dam, Pathalgaon: A Case Study", Indian Geotechnical Conference 2023 (IGC 2023), organized by IIT Roorkee, IGS Roorkee Chapter and CBRI Roorkee at IIT Roorkee, INDIA during Dec 14 - 16, 2023.
23. Rathour, S., Yadu, L.K., (2023) "Study of Seepage and Slope Stability Analysis of Ash Dyke Raising Under Static and Pseudo-Static Condition", Second International Conference on Recent Advances in Sustainable Environment (RAiSE2023), organized by Bundelkhand University, Jhansi and Dr B. R. Ambedkar National Institute of Technology Jalandhar, INDIA and supported by STEM-Research Society during May 15 - 16, 2023.
24. Verma N., Goel, A. and Yadu, L.K., (2023) "Pseudo-Static Analysis of Seismic Slope Stability of Ash Dyke using GeoStudio Software", Second International Conference on Recent Advances in Sustainable Environment (RAiSE2023), organized by Bundelkhand University, Jhansi and Dr B. R. Ambedkar National Institute of Technology Jalandhar, INDIA and supported by STEM-Research Society during May 15 - 16, 2023. Materials Today, Elsevier.
25. Rathour, S., Yadu, L.K., (2023) "Investigation of Slope Stability of Ash Dyke by Influencing the Upstream and Downstream Slopes and Height of Raising", Indian Power Stations – 2023 O&M Conference on Strategies for Reliable and Sustainable Power Generation in Changing Energy Scenario, 13-14 Feb 2023, Conducted by National Thermal Power Corporation at Raipur, Chhattisgarh, India.
26. Verma N., Goel, A., Yadu, L.K., (2023) "Comparative Study of Ash Dyke Raising Methods for Slope Stability and Economy", Indian Power Stations – 2023 O&M Conference on Strategies for Reliable and Sustainable Power Generation in Changing Energy Scenario, 13-14 Feb 2023, Conducted by National Thermal Power Corporation at Raipur, Chhattisgarh, India.
27. Verma, N., Goel, A., Yadu, L.K., (2023). A Review of Techniques of Ash Dyke Raising for Fly Ash Utilization, in: National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI) conducted by National Institute of Technology, Kurukshetra May 27-28, 2023
28. Gupta V., Yadu, L.K., (2022) "Seepage Analysis of An Earthen Dam: A Case Study of Tamta Dam" Indian Geotechnical Conference on GEOLEAP- Geotechnics: Learning,

- Evaluation, Analysis and Practice. 15-17 Dec' 2022, by IGS Kochi Chapter in association with Cochin University of Science and Technology at Kochi, Kerla, India.
29. Pyadi, R., Yadu, L.K., Chouksey, S. K., (2022) "Application of Biopolymers in Geotechnical Engineering Practices: An Eco-Friendly Approach" Indian Geotechnical Conference on GEOLEAP- Geotechnics: Learning, Evaluation, Analysis and Practice. 15-17 Dec' 2022, by IGS Kochi Chapter in association with Cochin University of Science and Technology at Kochi, Kerla, India
 30. Gautam, A. & Yadu, L.K., (2022) "Utilization of Gondagaon Coal Mine Overburden Dump as a Construction Material" Indian Geotechnical conference on GEOLEAP- Geotechnics: Learning, Evaluation, Analysis and Practice. 15-17 Dec' 2022, by IGS Kochi Chapter in association with Cochin University of Science and Technology at Kochi, Kerla, India.
 31. Rajak, T. K., Yadu, L.K., Alam, M.A., (2021) "Numerical, ANN, and MLR Modelling for Stability Analysis of Coal Mine Overburden Dump" Proceedings of Eighth Indian Young Geotechnical Engineers Conference 2021, September 17-18, 2021, India.
 32. Pyadi, R., Yadu, L.K., Chouksey, S.K., (2021) "Strength Characteristics of Fine Sand Reinforced with Polypropylene Fiber" Proceedings of Eighth Indian Young Geotechnical Engineers Conference 2021, September 17-18, 2021, India.
 33. Rajak, T. K., Mishra, A., Yadu, L.K., (2021) "Effect of GGBS on Strength Characteristics and Stability of Pond Ash Mixed Soil Embankment" International Conference on Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021) Organized By Department of Civil Engineering Bapatla Engineering College: Bapatla, 24th -25th September 2021.
 34. Yadu, L.K., Bajaj, P., Premjani, R. (2021) "Numerical and Experimental Analysis of Vertical Piles Batter Piles and Pile Groups Under Uplift Load Conditions in Non-Cohesive Sub-soil" International Conference on Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021) Organized By Department of Civil Engineering Bapatla Engineering College: Bapatla, 24th -25th September 2021.
 35. Premjani, R., Yadu, L.K., (2021) "Numerical and Experimental Analysis of Vertical Piles Batter Piles and Pile Groups Under Uplift Load Conditions in Non-Cohesive Sub-soil" International Conference on Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021) Organized By Department of Civil Engineering Bapatla Engineering College: Bapatla, 24th -25th September 2021.
 36. Gautam Atul D., Yadu, L.K. (2020) "Study on the Characteristics of Overburden Dump of the Coal Mines" Indian Geotechnical Conference 2020 Developments In Geotechnical Engineering For Sustainable Tomorrow (DIGEST) from 17th Dec to 19th Dec 2020, Indian Geotechnical Society Visakhapatnam Chapter in association with Department of Civil Engineering College of Engineering, Andhra University Visakhapatnam - 530 003 Andhra Pradesh, India.
 37. Sankalp P., Yadu, L.K. (2020) "Design and Stability Analysis of Gravity Section of Pairi High Dam" International Conference on Role of Innovation, enterprenurship and Management for Sustainable Development from 26th Sept to 27th Sep 2020, Organised by O.P. Jindal University Raigarh, India.
 38. Pankaj Bajaj, Laxmikant Yadu, Sandeep Kumar Chouksey (2019) "Numerical and Experimental Study of Laterally Loaded Piles in Sandy Soil Conditions" Symposium on Recent Advances in Sustainable Geotechnics, IGS Kanpur Local Chapter in

- collaboration with Indian Geotechnical Society (IGS), on 17th to 20th October 2019 at Department of Civil Engineering, IIT Kanpur.
39. Renu Premjani, Laxmikant Yadu (2019) "A comparative study of vertical and batter piles under lateral loading conditions" Symposium on Recent Advances in Sustainable Geotechnics, IGS Kanpur Local Chapter in collaboration with Indian Geotechnical Society (IGS), on 17th to 20th October 2019 at Department of Civil Engineering, IIT Kanpur.
 40. Tarun Kumar Rajak, Laxmikant Yadu, Sandeep Kumar Chouksey and Sujit Kumar Pal (2018) "Stability Analysis Of Soil Slope Stabilized With Fly Ash and Lime" International Conference on "Advances in Concrete, Structural, & Geotechnical Engineering " during 26 - 28th February 2018 at BITS Pilani, India.
 41. Tarun Kumar Rajak, Laxmikant Yadu, Sandeep Kumar Chouksey and Sujit Kumar Pal (2017) "Strength Characteristics of Fly Ash Stabilized Soil Embankment and Stability Analysis Using Numerical Modelling" Indian Geotechnical Conference Geotechnics for Natural and Engineered Sustainable Technologies GeoNEst 14-16 December 2017, IIT Gowahati, GeoNest, India.
 42. Pankaj Bajaj, Laxmikant Yadu, Sandeep Kumar Chouksey and Renu Premjani (2017) "Experimental Study of Vertical and Batter Pile groups under Lateral Loads in sand" Indian Geotechnical Conference IGC 2017- Geotechnics for Natural and Engineered Sustainable Technologies GeoNEst 14-16 December 2017, IIT Gowahati, GeoNest, India.
 43. Verma, M.K., Verma, M.K., Yadu, L.K. and Murmu Meena (2017). Statistical Downscaling of GCM Data and Analysis of Trend of Predicted Data for Seonath River Basin, ICACEC 2017, The World Academy of Research in Science & Engineering, Hongkong, during January 16-17, 2017
 44. Laxmikant Yadu (2016). "Statistical Analysis of Strength Property of Soil", International Conference on "Engineering & Technology, Computer, Basic and Applied Sciences"- ECBA-2016 at Dubai from June 10-12, 2016.
 45. Mani Kant Verma, Dr. M. K. Verma, Mokshdhar Meshram, Dr. L.K. Yadu, (2016) "Impact of Climate Change on Precipitation of Kwardha Station in Sheonath River Basin", National Conference on Water Resources and Hydropower being held during 17th -18th June, 2016 at University of Petroleum and Energy Studies, Dehradun.
 46. Deepak Ranjan Rath, Mani Kant Verma, Laxmikant Yadu, Aabyasachi Swain, Saran Aadhar (2016), "Hydrological Modelling through SWAT: Pros and Cons" National conference on water Resource and Hydro Power (WRHP) organized by UPES and IIT Roorkee, June 17-18, 2016.
 47. Ansu Thomas, R. K. Tripathi, Laxmikant Yadu (2016), "Variation in Damping Ratio of Enzyme Treated Soil, Special Section on: Current Research Topics in Power, Nuclear and Fuel Energy, SP-CRTPNFE 2016, from the International Conference on Recent Trends in Engineering, Science and Technology 2016, 1 June 2016, Hyderabad, India, pp 8-13 (Conference / Elsevier Energy Procedia)
 48. Ansu Thomas, R. K. Tripathi, Laxmikant Yadu (2016), "Effect of GBS on the UCS and Shear modulus of soil" International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues, September 23-24, 2016, Mumbai, India.
 49. Tarun Kumar Rajak, Laxmikant Yadu (2016), "Stability Analysis of Lime Stabilized Soil Slope" International Geotechnical Engineering Conference on Sustainability in

- Geotechnical Engineering Practices and Related Urban Issues, September 23-24, 2016, Mumbai, India.
50. Pankaj, Laxmikant Yadu (2016), "Experimental study of vertical and batter piles in loose sand under lateral loads" International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues, September 23-24, 2016, Mumbai, India.
 51. Tarun Kumar Rajak, Laxmikant Yadu, Sujit Kumar Pal (2016) "Analysis of Slope Stability of Fly Ash Stabilized Soil Slope" Indian Geotechnical Conference 15-17 December 2016, IIT Madras, Chennai, India.
 52. Laxmikant Yadu, Pankaj Bajaj and Rajesh Kumar Tripathi (2016) "Bearing Capacity of Circular Footing on Geogrid-Reinforced Granulated Blast Furnace Slag" Indian Geotechnical Conference 15-17 December 2016, IIT Madras, Chennai, India .
 53. Yadu L.K. and Tripathi R.K. (2015). "Response of Circular Footing on New Key Engineering Material - Granulated Blast Furnace Slag as Structural Fill" 5th International Conference on Key Engineering Materials 2015 (ICKEM 2015), March 21-23, 2015, Singapore.
 54. Yadu L.K., Tripathi, R.K. (2013). "Effectiveness of Granulated Blast Furnace Slag over Sand as Overlay for the Stabilization of Soft Clay". International Conference on Advances in engineering and Technology Convergence (AETC) Organised by Interscience Research Network, at Bangkok Thailand on 28th April 2013, pp 40-45. (ISBN No. 978-93-82208-89-1). Available online at www.irnetexplore.ac.in. (Received Young Investigator Award for this paper). (Published in the Journal of IJATCE)
 55. Tripathi R.K. and Yadu L.K. (2013). "Bearing Capacity of Square Footing on Soft Soil Stabilized with Rice Husk Ash – An Experimental Study". International Conference on Emerging Trends in Engineering and Technology (ICETET'2013) Dec. 7-8, 2013 Patong Beach, Phuket (Thailand).
 56. Yadu L.K., Tripathi, R.K. (2012). "Potential of Disposed Jute Bags for Sustainable Civil Construction Works in Chhattisgarh State" National conference on Role of Science and Technology for Sustainable Development of Chhattisgarh, Shri Shankracharya Technical Campus Junwani, Bhilai, Chhattisgarh, India, January 25-26.
 57. Yadu, L.K., Singh, D.V., and Tripathi, R.K. (2011). "Strength Characteristics of Rice Husk Ash Stabilized Black Cotton Soil," Proceedings of International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011), Department of Civil Engineering, National Institute of Technology, Calicut, Kerala, India, September 28-30, Paper No. T022.
 58. Yadu, L.K., Tripathi, R.K., and Patel, A. (2011). "Smart Building and Photovoltaic Based Cooling System," Proceedings of 27th National Convention of Civil Engineers and National Seminar on Integrated Development of Towns as Growth Centers, The Institution of Engineers (India) Chhattisgarh State Centre, Raipur in Association with National Institute of Technology Raipur, CG, India, October 15-16, pp 150-153.
 59. Singh, D.V., Reddy, K.S., Yadu, L.K. (2010). "Characterization of Fine Grained Subgrade Soils for Pavement Design," Proceedings of International Conference on Development of Road Transportation, Department of Civil Engineering, National Institute of Technology, Rourkela, Orissa, India, October 08-10, pp 367-375.
 60. Yadu, L. K., and Shahu, J. T. (2007). "Analysis of Gravity Dam Foundation with Shear Seam and Remedial Measure," Proceedings of National Conference on Civil

Engineering Advancement and Challenges (CEAC-2007), M. M. Engineering, College, Ambala, Haryana, India, March 9-11, pp 126-131.

61. Yadu, L. K., and Shahu, J. T. (2007). "Gravity Dam Foundation Analysis with Shear Seam and Concrete Pile as a Remedial Measure," Proceedings of National Conference on Emerging Technology and Developments in Civil Engineering, Government College of Engineering, Amravati, Maharashtra, India, March 22-23, pp VII-86-VII-92.
62. Yadu, L. K. (2007). "Analysis of Gravity Dam Foundation With Shear Seam – A Parametric Study," Proceedings of National Conference on Advances and Innovations in Civil Engineering, MepcoSchlenk Engineering College, Sivakasi, Tamilnadu, India, March 24, pp 20-23.

SUPERVISION:

PhD Supervision:

Sl. No.	Candidate Name	Proposed Topic	Status/ Joint-Supervisors
1	Mr. Ishtiyah Ahamd (Entry 2010)	Integrated river basin planning & management: Sheonath basin in Chhattisgarh state	Awarded in 9 th December 2016 / Dr. M. K. Verma
2	Mr. Manikant Verma (Entry 2013)	Impact of Climate Variability and Land Use on the Hydrology (A Case Study of Seonath River Basin)	Awarded in 23 rd April 2018 / Dr. M. K. Verma & Dr. Meena Murmu
3	Ms. Ansu Thomas (Entry 2014)	A Comparative Study of Soil Stabilization using Tradition, Non-traditional and Byproduct Stabiliser	Awarded in 2 nd July 2018 / Dr. R. K. Tripathi
4	Mrs. Shobha Maliwal (Entry 2012)	Flood control measures by integrated operation of multi reservoir system: Mahanadi reservoir project complex	Awarded on 14 th July 2021 Dr. M. K. Verma
5.	Mr. Pankaj Bajaj (Entry 2015)	Study on vertical pile, batter pile and pile groups subjected to lateral, uplift and combined loading in non cohesive soil	Awarded on 27 th Oct 2020 / Dr. S Chouksey
6	Mr. Tarun Kumar Rajak (Entry 2015)	A Parametric study on Stability of Coal Mine Overburden Dump Material Mixed with Industrial By-Products	Awarded on 15 th December 2020 / Dr S Chouksey
7	Ms. Renu Premjani (Entry 2018)	Study of vertical, lateral and combined loads on vertical pile, batter pile and pile group in cohesion-less soil	Awarded on 8 th Nov 2024 sole
8	Mr Atul D. Gautam (Entry 2018)	Study on Stabilization of Coal Mine Overburden Dump Using Microbial Induced Calcite Precipitation and	Submitted / sole

		Industrial By-product.	
9	Mr. Styanandam Srinivasan (Entry 2018)	Disaggregate Analysis and Modelling of FWD Deflection Profile for Prediction Backcalculated Pavement Layer Moduli	Ongoing / Dr Sunny Deol G.
10.	Mr Rakesh Pydi (Entry 2020)	Characterisation of Geotechnical Properties of Soil Treated with Biopolymers	Awarded on 24 th July 2026 Dr S Chouksey
11.	Ms Shivani Rohit Chandani (entry 2023)	Characterisation of Geotechnical Properties of Soil Treated with plant based biopolymer	Ongoing/ Dr Ansu Thomas
12.	Mr. Aman Mishra (entry 2024)	A Study on Static and Cyclic Behavior of Biochar-Amended Soil for Geotechnical Applications	Ongoing/ Dr. S. Adhikary (VNIT Nagpur)
13.	Ms. Bibha Mahto	An Experimental Study on Coal Washery Rejects Treated with Ground Granulated Blast Furnace Slag For Geotechnical Applications	Ongoing/ Sunny Deol
14.	Mr. Manas Rathore	Characterisation of Iron ore dump for geotechnical applications	Ongoing/ sole

M Tech Supervision:

Sl. No.	Candidate Name	Topic	Joint-Supervisors
1	Ms. Deepali Tamboli (R.N.14244004) (2016) at NIT Raipur	Estimation of Soil Erosion for Sheonath River Basin by Using RUSLE and GIS	Completed / Sole
2	Mr. Deepak Ranjan Rath (R.N. 14244002) (2016) at NIT Raipur	Application of Hydrological Modelling of Upper Sheonath Basin for Estimation of Runoff	Completed/ Prof Manikant Verma
3	Mr. Pranav S Sankapal R. N. 18244009 at NIT Raipur	Design, Stability and Seepage Analysis of an Earthen Dam- A Case Study of Proposed Pairi Dam	Completed / Sole
4	Mr. Vikas Dubey R. N. 18244012	Mapping of Proposed Dam at Gariyabad District	Completed / Sole

	at NIT Raipur		
5.	Mr. Ajay Markam R. N. 19244001at NIT Raipur	A case study on dam break failure analysis on Hirakund dam.	Completed / Sole
6.	Mr. Ashish Kuldeep R. N. 19244004at NIT Raipur	Stability and Seepage Analysis of an Earth Dam : A Case Study of Kodar Dam	Completed / Sole
7	Ms. Bhanu Sahu R. N. 19244007at NIT Raipur	Assessment of Runoff for Ahiran River Watershedusing Hydrological Modelling :A Case StudyOfAhiranKharung Li Project	Completed / Sole
8	Mr Rajnish Kumar R. N. 20244009at NIT Raipur	Identification of Ground Water Potential Zone Mand River Basin, Chhattisgarh India	Completed / Sole
9	Mr Vishal Gupta R. N. 20244011at NIT Raipur	Seepage and Slope Stability Analysis of Tan Earthen Dam: A Case Study	Completed / Sole
10	Ms Sweta Rathore R. N. 21244012 at NIT Raipur	Seepage and Slope Stability Analysis of Lotle AshDyke: A Case Study	Completed / Sole
11	Ms Nidhi Verma, from NIT Kurukshetra	Stability Analysis And Performance Evaluation of Ash Dyke in Static And Seismic Conditions	Completed / Sole
12	Ms Upasana Ratre	Seepage and stability analysis of an earthen dam with sensitivity and probabilistic analysis: Case Study.	Ongoing / Sole
13	Mr. Shishir Jaiswal R. N. 23244010	Rainfall Induced Instability of an Earthen Dam Slope	Completed / Sole
14	Mr. Lokendra Singh R. N. 23244005	Seepage and slope stability analysis of earthen dam considering rainfall and geomembrane interface effects: A case study Kharkhara dam	Completed / Sole

15	Mr. Vinay Kumar Khandey N. 24244009	Seepage and Stability Analysis of Tailing Dam	Completed / Sole
16	Mrs.Monika Bhaskar	Dam breach analysis of an earthen dam	Ongoing/ sole

ACHIVEMENTS AND SCHOLARSHIP:

- Honorary Secretary of Indian Geotechnical Society Raipur Chapter from 8th July 2019 to 7th July 2021 and 8th July 2021 for two years
- Young Investigator Award by Interscience Research Network for Paper entitled “Effectiveness of Granulated Blast Furnace Slag over Sand as Overlay for the Stabilization of Soft Clay” at Bangkok, Thailand, on 28th April 2013.
- Selected in State Engineering Services 2008 conducted by Chhattisgarh Public Service Commission for the post of Assistant Engineer (Civil) and Posted in Rural Engineering Services, Government of Chhattisgarh.
- Selected for the post of Assistant Engineer (Civil)-2008 at Chhattisgarh State Electricity Board and posted at Jagdalpur, Chhattisgarh State Power Transmission Company Limited.
- Appeared in the interview twice on Engineering Services Examination 2007 and 2008 conducted by Union Public Service Commission.
- Awarded Merit Scholarship during M. Tech. (Graduate Study) in IIT Delhi, India from Ministry of Human Resources Development (MHRD), India.
- Qualified and secured position in top 9% of total appeared candidates in Graduate Aptitude Test in Engineering (GATE) Examination conducted at National Level in India.
- Merit Position (24th Rank) in High School Examination at State Level.
- Awarded Ideal & Best Student Award consecutively for Two years at School Level.
- Given Merit Scholarship for outstanding performance during school education from class 8th standard to class 12th standard.

VISIT ABROAD:

Thailand: Bangkok, Pataya	During 27 th April to 30 th April 2013.
Singapore:	During 20 th March to 24 th March 2015.
Dubai:	During 9 th June to 13 ^h June 2016.

PROFESSIONAL MEMBERSHIP:

1. Life fellow of Indian Geotechnical Society [LF-0665]
2. Member of American Society of Civil Engineers [A.M. ASCE, Member ID# 9132503]
3. Member of Geo-Institute, American Society of Civil Engineers.
4. Member of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) for the Years 2022-2025. [IND12LM-3183]
5. Member of Indian Geotechnical Society, Delhi Chapter, India. [LM-3183]
6. Member of Indian Roads Congress, New Delhi, India. [LM-37607]
7. Member of Institution of Engineers (India) [AM099438-6]
8. Member of Indian Concrete Institute [LM-9656]

9. Member of Indian Association of Soil and Water Conservationists [LM-1827]
10. Member of Indian Meteorological Society [LM-2587].
11. Member of Institution of Engineering and Technology (IET) [1100550889].
12. Member of International Society of Geosynthetics [15738]
13. Member of Indian Society of Earthquake Technology (ISET) [LM 1781]
14. Member of International Society of Rock Mechanics (ISRM) [008/INDIVIDUAL/2023/LY]
15. Member of Indian Society of Rock Mechanics and Tunnel Technology [LM 2295]

REVIEWER

Journals:

- Journal of Geological Resource and Engineering, David Publishing. ISSN:2328-2193. (http://www.davidpublishing.com/journals_info.asp?jId=2119#)
- Geomechanics and Engineering: An International Journal.
- Canadian Geotechnical Journal.
- Arabian Journal of Geosciences
- Computational Methods in Engineering
- Structures
- Ain Shams Engineering Journal

TEACHING EXPERIENCE:

- Currently working as Professor in Civil Engineering Department National Institute of Technology, Raipur, Chhattisgarh, India (21st Nov 2023 to till date).
- Worked as an Associate Professor in Civil Engineering Department National Institute of Technology, Raipur, Chhattisgarh, India (July 2018 to 20th Nov 2023).
- Worked as an Associate Professor & Head in Civil Engineering Department in Government Engineering College, Raipur, Chhattisgarh, India (12th July 2016 to 24th July 2018)). (<http://www.gecraipur.ac.in>)
- Worked as an Assistant Professor in Civil Engineering Department in National Institute of Technology, Raipur, Chhattisgarh, India (5th July March 2009 to 11.07.2016 and taken lien for two years to join GEC Raipur as Associate Professo). (<http://www.nitr.ac.in>)
- Worked as a Lecturer in Civil Engineering Department (Geotechnical Group) in Birla Institute of Technology and Science (BITS), Pilani, Rajasthan, India (December 2005 to July 2008). (<http://www.bits-pilani.ac.in>)
- Worked as a Lecturer (Guest Faculty) in Civil Engineering Department, National Institute of Technology, Raipur, Chhattisgarh, India (Sep. 2001 to July 2003). NIT, Raipur is considered one of the most reputed Engineering Institute of India. (<http://www.nitr.ac.in>)
- Major contribution in organizing of C⁺⁺ language and AutoCAD course conducted by Canada-India Institute Industry Linkage Project in NIT, Raipur, Chhattisgarh, India (Jan. to June 2003).

FIELD EXPERIENCE:

- Worked as an Assistant Engineer (Sub-Divisional Officer) in Rural Engineering Services, Panchayat and Rural Development Department, Government of Chhattisgarh, Raipur at Project Implementation Unit (PIU), Pradhan Mantri Gram Sadak Yojana Durg, Chhattisgarh, India (28th July 2008 to 4th March 2009).
- Worked as an Assistant Engineer (Sub-Divisional Officer) for Asian Development Bank funded project under Pradhan Mantri Gram Sadak Yojana (PMGSY) affiliated with National Rural Roads Development Authority (NRRDA), New Delhi, India at Project Implementation Unit (PIU) Mahasmand, Chhattisgarh, India (June 2005 to Nov. 2005).
- Involved in the testing of construction materials such as Soil, Aggregates and Concrete Cube during my tenure as Assistant Engineering in PMGSY, PIU - Mahasmand, Chhattisgarh, India (June 2005 to Nov. 2005).
- Involved in the preparation of Detail Project Report (DPR) as well as conducted various Traffic Survey during my tenure as Assistant Engineer in PMGSY, PIU - Mahasmand, Chhattisgarh, India (June 2005 to Nov. 2005).
- Involved in the Consultancy works in BITS-Pilani for determination of Soil Bearing Capacity for RCC water tank at Bhatiwara, Rajasthan, India (March 2006).
- Involved in the Consultancy works in NIT Raipur for determination of Soil Bearing Capacity by Plate Load Test at Kabirdham, Chhattisgarh, India (May 2002).
- Involved in the Consultancy works in NIT Raipur for estimation of present cost of a Risk Husk Power Generation Plant, Balouda Bazar, Raipur, Chhattisgarh, India (January 2002).
- Involved in the Consultancy works in NIT Raipur for Contouring of a plot near Raipur, Chhattisgarh, India (March 2003).

ADMINISTRATIVE EXPERIENCE:

- Head of Civil Engineering Department NIT Raipur from 1st July 2025 to till date. (Office Order No./NITRR/DIR/S-1/2025/256 Dated 23-06-2025)
- Associate Dean (Planning & Development) at NIT Raipur from 5th September 2020 to 30.06.2025. (Office Order No./NITRR/DIR/S-1/2020/051 Dated 02-09-2020)
- Professor Incharge Estate Office (Civil) at NIT Raipur from August 2018 to 7th September 2020. (Office Order No./NITRR/DIR/S-1/2018/1752 Dated 17-08-2018)
- Head, Department of Civil Engineering, Government Engineering College Raipur from 12th July 2016 to 24th July 2018.
- Nodal Officer (Finance) TEQIP-III Project at Government Engineering College Raipur from July 2017 to till date.
- TEQIP-II Departmental Coordinator of Civil Engineering Department, NIT Raipur, Chhattisgarh, India. (October 2013 to 4th July 2016).

- Head (Incharge) of Civil Engineering Department, NIT Raipur, Chhattisgarh, India. (June' 12th to June 30th 2013).
- Assistance to Dean (Planning and Development), NIT Raipur, Chhattisgarh, India (Sep' 2011 to till date).
- Professor-Incharge of Testing works in Civil Engineering Department, NIT, Raipur, Chhattisgarh, India (August 2010 to August 2011 and 24th September 2013 to 1st July 2016).
- Professor-Incharge of Civil Engineering Association in Civil Engineering Department, NIT, Raipur, Chhattisgarh, India (8th July'2009 to 1st August 2013).
- Geotech Engineering Laboratory Incharge in Civil Engineering Department, NIT, Raipur, Chhattisgarh, India (8th May'2009 to 1st July 2016).
- Member of the Anti-Ranging Committee for Boy's Hostels on Wednesday and Thursday. [Institute order No./NITRR/Anti Ranging/2011/264 Raipur Dated 19.07.11].
- Member of the committee for the venue and seating arrangement in ECLECTIAK 2009 and 2010.
- Faculty Member of the Institute Technical Committee for year 2009-10 and 2010-11.
- Member of the team for investigation for Chimney collapse at Balco Nagar Police Station Crime NO. 377/09 under section 304,34 of I.P.C. [Institute order No 370/Civil/Consultancy/2009, Raipur, Dated 07.10.2009].
- Worked as an Analyzer of the question paper for Sub-Engineer (Civil) Rural Engineering Services selection Exam 2011 conducted by Chhattisgarh Professional Examination Board Raipur (CGVYAPAM).
- Worked as an Analyzer of the question paper for Sub-Engineer (Civil) NagriyaNikay selection Exam 2010 conducted by Chhattisgarh Professional Examination Board Raipur (CGVYAPAM).
- Worked as an Analyzer of the question paper of Public Health Engineering for Sub Engineer (Civil) Selection Exam – 2010 conducted by Chhattisgarh Professional Examination Board Raipur (CGVYAPAM).
- Worked as an Analyzer of the question paper of Tribal Department, Civil Engineering Recruitment Exam-2008 conducted by Chhattisgarh Professional Examination Board Raipur (CGVYAPAM).
- Incharge of Consultancy works at Civil Engineering Group, BITS, Pilani, Rajasthan, India (July 2007 to July2008).
- Member of the Library Committee at BITS, Pilani, Rajasthan, India (July 2007 to July2008).
- Worked as Administrator Proctor for smooth conduction of BITS, Pilani Entrance Examination (BITSAT-2006) (May-June 2006).

INSTITUTE OUT REACH ACTIVITY

- Executive member (Co-opted) for national body of Indian Geotechnical Society India for the term 2025-2027.
- Technical expert at National Rural Infrastructures Development Authority (NRIDA), New Delhi.
- Nominee of Vice Chancellor, Chhattisgarh Swami Technical University for University teaching department (UTD), CSVTU, Bhilai for Doctoral Research committee for PhD work in Civil engineering.
- Nominee of Vice Chancellor, Chhattisgarh Swami Technical University for Bhilai Institute of Technology Durg for Doctoral Research committee for PhD work.
- Member of Board of Studies at O.P. Jindal University Raigarh from 2018.
- Member of Interview committee at Public Service Commission Prayagraj Uttar Pradesh.
- AICTE Expert Committee visit as an expert at NMDC DAV Polytechnic Old Central School Building Dantewada, Chhattisgarh for the academic year 2016-17 on 26.10.2016.
- Inspection of Chhatrapatishivaji institute of technology durg for affiliation 2017-18 on 20.03.2017.
- Worked as an expert for Analysis of question paper of Assistant Engineer (Civil) Exam 2014 conducted by Chhattisgarh Professional Examination Board Raipur on 06.02.2015.
- Worked as an expert for Analysis of question paper of Sub Engineer (Civil) Exam 2014 conducted by Chhattisgarh Professional Examination Board Raipur on 06.02.2015.
- Worked as an Analyzer for the question paper of Sub-Engineer (Civil) panchayat & Rural development dept Exam – 2011, Exam conducted by Chhattisgarh Professional Examination Board Raipur.
- Worked as an Analyzer for the question paper of Sub-Engineer (Civil) combined exam for PWD, RES, Irrigation, Nagar Nigam for Sub Engineer (Civil) Selection Exam – 2013, Exam conducted by Chhattisgarh Professional Examination Board Raipur.
- Judge for district level science project “Land resources – use for prosperity and save for posterity” organised by Chhattisgarh science and technology parishad on 10.11.2010 at Mayaram Surjan Government higher secondary school Choubey colony Raipur

EXPERT LECTURE DELIVERED:

1. Delivered an key note lecture on topic “forensic engineering” on 4th April 2025 at International Conference On “Next Gen Technological Integration for Sustainable Growth” by RSR Rungta College of Engg & Technology Bhilai in collaboration with Tradepreneur.
2. Delivered an Expert-lecture on topic “Basics of Forensic Engineering: Explanation with Case Studies” on 3rd March 2025 at FDP on topic

- “Modernization and Sustainable Advances in Civil Engineering: Exploring Innovative and Contemporary Research at O. P. Jindal Institute of Technology Raigarh in association with the Institution’s Innovation Council (IIC).
3. Delivered an Expert-lecture on topic “Finite Element Analysis in Geotechnical Engineering” on 21st June 2024, NIT Raipur, workshop on Finite element analysis at NIT Raipur from 18th June to 22nd June 2024.
 4. Delivered an Expert-lecture on topic “Lessons Learned from Forensic Investigation of Distressed Reinforced Soil Wall” on 6th April 2024, New Delhi Workshop on Reinforced Soil Wall: Distresses and Remedies at CBIP New Delhi.
 5. Delivered an Expert-lecture on topic “Forensic Geotechnical investigation: Concept with case studies” on 8th May 2024 at Faculty Development Program entitled “Emerging research trends in Civil Engineering” jointly organized by Vishnu Institute of Technology (A), Bhimavaram andSSIPMT Raipur.
 6. Delivered an Expert-lecture on topic “Fly Ash - a Resourceful Material in Construction” on 29th March 2023 organised by NSPCL (A joint Venture of NTPC and SAIL) Bhilai on Ash User Meet 2023 at Hotel Central Park Bhilai, Chhattisgarh.
 7. Delivered an Expert-lecture on topic “Geotechnical Investigation: A Myth for A Civil Engineer” on 23rd September 2022 organised by Faculty of Technology, Department of Civil Engineering Kalinga University, Chhattisgarh.
 8. Delivered an Expert-lecture on topic “Management of Lab and Its Safety” on 8th March 2022 in the Two Weeks Non-Teaching Staff Trainng Program (NTSTP-IV 2022) on “Expansion of Performance Potential of Officers and Staff for continuous Advancements of Academic Institutions from 25th Feb to 9th March 2022 organised by Chhattisgarh Swami Vivekanand Technical University Bhilai (CSVTU Bhilai).
 9. Delivered an Expert-lecture on topic “Geotechnical Investigation Basics and It'sImportance" on 15th September 2021 organised by IGS student Chapter at Bhilai Institute of Technology Raipur, Chhattisgarh.
 10. Delivered an Expert-lecture on topic “Managing Lab and It's Facilities" on TwoWeeks Non-Teaching Staff Training Program (NTSTP-III-2021) on 16th December 2021organised by SSIPMT Raipur, Chhattisgarh.
 11. Delivered an Expert-lecture on topic “Forensic Geotechnical Engineering and Case Studies” on 5thsptember 2021 organised by Indian Geotechnial Society Jabalpur Chapter and Student Chapter of IGS Jabalpur Chapter.
 12. Delivered an Expert-lecture on topic “Test on Soils” on 28th July 2021 in the Online training program for E.E., A.E. and J.E. on Quality Control, Managament, Maintenance Material Testing & Procedure for Rural Roads Construction (Field & Lab) from 27th July to 29th July 2021 organised by RCTRC Bhawan Village Jhanjh Sector – 24 Naya Raipur.
 13. Delivered an Expert-lecture on topic “Laboratory Management and Lab Safety” on 12th July 2021 in the Two Weeks Non-Teaching Staff Trainng Program (NTSTP-2021) on Management Capacity Enhancement Training Program for Non Teaching Officers and staff from 5th July to 17th July 2021 organised by Chhattisgarh Swami Vivekanand Technical University Bhilai (CSVTU Bhilai).
 14. Delivered an Expert-lecture on topic “Geotechnical Investigation and Basic Soil Tests and its Significance” on 9thJune 2021 in the Short-Term

- Training Programme (STTP) on “Advances in Geotechnical, Mining, and Geology” jointly organized by IGS Raipur Chapter, NIT Raipur andSSIPMT Raipur, Chhattisgarh from 9th June 2021 to 13th June.
15. 2021. Delivered an E-lecture on topic “Basic Forensic Geotechnical Engineering and Case Studies” on 28th April 2021 in the One Week Teachers Training Program (TTP-2021) on “Geotechnical Investigations in Civil Engineering” jointly organized by AICTE-CSVTU Bhilai and hosted by Department of Civil Engineering, Vishwavidyalaya Engineering College, Lakhanpur, Ambikapur, Dist – Surguja, Chhattisgarh.
 16. Delivered an expert talk on ‘Foundation of Expansive Soils: Problems and Remedial Measures’ in online International Short Term Training Program on 1st July 2020 on ‘Advances in Technology and Management in Civil Engineering-ATMCE’ from 23rd June to 3rd July 2020, organized by KDK College of Engineering Nagpur.
 17. Delivered an E-lecture on “Foundation on Expansive Soils: Problem and Remedial Measures” at O.P. Jindal University, Raigarh on 14th May 2020 in E-webinar.
 18. Delivered a lecture on “Geotechnical Investigation: A Myth for Civil Engineering” at Columbia Institute of Engineering and Technology Raipur on 25th January 2020 as Key note speaker in the National conference on innovative trends and Sustainable development.
 19. Delivered a lecture on “Importance of Geotechnical Laboratory and Field Test In Civil Engineering Construction Practices” on 1^{4th} March 2019 at Civil Engineering Department Government Engineering College Raipur Chhattisgarh.
 20. Delivered a lecture on “Importance of Geotechnical Site Investigation in Development of Infrastructure” on 12th February 2019 at Civil Engineering Department Government Engineering college Raipur Chhattisgarh.
 21. Delivered a lecture on “Design Aspects of Earthquake Resistant Shallow foundation” on 28th November 2018 at Civil Engineering Department O.P. Jindal University Raigarh.
 22. Delivered a lecture on “Soil: Classification, Testing and Investigation, Technical Consideration and Implementation Arrangements” on 16.03.2016 in the Training Programme on Rural Road Maintenance to Engineer and Contractor in non RRP-II States At RCTRC Bhawan Village Jhanjh Sector – 24 Naya Raipur scheduled from 15th March to 17th March 2017.
 23. Delivered a lecture on “Geo-environmental Challenges and Solutions” on two weeks course “Modern Geotechnical Engineering” under Global Initiative for Global Network (GIAN) programme funded by Ministry of Human Resources Development, Government of India from 21st Dec to 28th Dec 2015 at NIT Raipur on 27.12.2015.
 24. Delivered a lecture on “Geotechnical Investigations for various sites & Laboratory & field investigations for Construction of subgrade and granular layers using locally available material” in five days short term hands on training programme “Testing Methods in Civil Engineering Construction” under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur on 19.11.2015.
 25. Delivered an Expert Lecture on topic “New Trends in Geotechnical Engineering” at O.P. Jindal Institute of Technology Raigarh, Chhattisgarh, India on 1st April 2015.

26. Delivered an Expert Lecture on topic "Design Aspects of Earthquake Resistant Shallow Foundation" in Training Programme on "Earthquake Resistant Building Construction Techniques and Safe Construction Practices" for the Engineers of various government department of Government of Chhattisgarh and Engineers of Public & Private Sectors on 9th March 2015 at Government Engineering College Bilaspur, Chhattisgarh, India.
27. Delivered a Lecture on topic "Fly Ash: A Resource Material for Soil Stabilisation and Embankment Construction" in one day Workshop "Ash Utilization Challanges and Opportunities" on 24th February 2015 at NSPCL Bhilai Expansion Plant Bhilai, Chhattisgarh. India.
28. Delivered a Lecture on topic "Geotechnical Investigation and Foundation Types" in "Training Programme for Capacity Building of Engineers -2012" for the Engineers of Public Works Department, Government of Chhattisgarh, PWD (B&R) Division Kanker on 22nd September 2012 at ManasBhavan, Kanker, Dist-Kanker, Chhattisgarh.
29. Delivered a Lecture on topic "Design Aspects of Earthquake Resistant Shallow Foundation" in a shortterm course for the Practicing Engineers of the Government Department of Government of Chhattisgarh, under National Programme for Capacity Building of Engineers in Earthquake Risk Managament funded by Ministry of Home Affairs, Government of India, on 4th May 2010 at National Institute of Technology Raipur.
30. Delivered Lecture on "Radioactive Waste: The Problem and its Management" as an Expert for Academic and Industrial Participant on Hazardous Waste Management two days seminar under Ministry of Environment and Forest Department, Government of India in association with National Institute of Technology Raipur at National Institute of Technology Raipur Chhattisgarh (22nd August 2009).
31. Delivered Series of Lectures on "Quality Control and Assurance of Rural Roads" for Assistant Engineer and Junior Engineer of Public Works Department (PWD) Rajasthan State, India under Pradhan Mantri Gram SadakYojana (Prime Minister Village Road Scheme) Training Programme, conducted by National Rural Roads Development Authority (NRRDA), New Delhi, India at Birla Institute of Technology and Science (BITS), Pilani, Rajasthan, India (Jan - March 2006).

SHORT TERM COURSE ATTENDED:

1. One week refresher course on "Finite Element Method" Organised by Department of Mechanical Engineering, National Institute of Technology Raipur at NIT Raipur from 18-22nd June 2012.
2. Short term course on "Waste Treatment and Cleaner Technologies" held at National Institute of Technology Raipur organised by Department of Chemical Engineering during 28th May to 1st June 2012.
3. Short Course on "Finite Element Method, Constitutive Modeling and Applications" held at Indian Institute of Technology Gandhinagar during April 02-05, 2012.
4. Four Weeks Training programme under "National Programme for Capacity Building of Engineers in Earthquake Risk Management (NPCBEERM)"

Conducted by Ministry of Home and National Earthquake Risk Management Department, Government of India at Civil Engineering Department, Indian Institute of Technology Kharagpur West Bengal as a Faculty of State Resources Institute (NIT Raipur) (June 08 – July 05 2009).

SEMINAR / WORKSHOP ORGANISED:

1. Two weeks short term training program for the faculty & staff members, PhD & M Tech scholars on “Testing of Geo-materials for Geo-technical and Transportation Engineering Applications” jointly organized by Civil Engineering Department NIT Raipur and IGS Raipur Chapter from 26th June 2023 to 7th July 2023 as a coordinator and domain expert.
2. Organised 5 days Faculty Development Program (FDP) on “Geo-environmental and Geo-transportation Engineering” jointly organized by IGS Raipur Chapter, NIT Raipur andSSIPMT Raipur, Chhattisgarh from 27th June 2022 to 1st July 2022.
3. Organised 5 days Short Term Training Programme (STTP) on “Advances in Geotechnical, Mining, andGeology” from 9th June to 13th June 2021, jointly organised by IGS Raipur Chapter in association withNational Institute of Technology (NIT) Raipur& Department of Civil Engineering,Shri Shankaracharya Institute of ProfessionalManagement and Technology (SSIPMT) Raipur.
4. Organized fivedays workshop on “Construction of Low Volume Roads on Soft Subgrade Soil Improved by Locally Available Marginal Materials” under and funded by Human Settlement Management Institute - Housing and Urban Development Corporation (HSMI-HUDCO), New Delhi at NIT Raipur from 24th September 2019 to 28th September 2019.
5. Organised two weeks course “Modern Geotechnical Engineering” under Global Initiative for Global Network (GIAN) programme funded by Ministry of Human Resources Development, Government of India from 21st Dec to 28th Dec 2015 at NIT Raipur as Course Coordinator and host faculty.
6. Organized five days short term hands on training programme “Testing Methods in Civil Engineering Construction” under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur from 16th November to 20th November 2015 as Coordinator.
7. Organized two days workshop “Water Resources in Developing Countries: Planning and Management under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur on 27th and 28th August 2015 as organising member.
8. Organized one day workshop under research project “Construction of Low Volume Roads on Soft Subgrade Soil Improved by Locally Available Marginal Materials” funded by Human Settlement Management Institute (HSMI), HUDCO New Delhi at Civil Engineering Department, National Institute of Technology Raipur in association with HSMI, HUDCO New Delhi on 14th August 2015 as Coordinator.
9. Organized one day workshop “Research Schemes in DST & Recent Advances in Civil & Transportation Engineering” under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur on 1st August 2015 as Coordinator.

10. Organized a Regional Educational Workshop on “Structural Engineering Solutions” organized by Civil Engineering Department, National Institute of Technology Raipur in association with Concept Tele Systems (Bentley Channel Partner) on 29th and 30th October 2012 at National Institute of Technology Raipur as Member of Organizing Committee.
11. Organized a Short term course for the Practicing Engineers of the Government Department of Government of Chhattisgarh, under National Programme for Capacity Building of Engineers in Earthquake Risk Management funded by Ministry of Home Affairs, Government of India, during 3rd May to 7th May 2010 at National Institute of Technology Raipur as a Co-ordinator.
12. Organized A Technical Presentation on “Birla White YunaRatan Awards – 2010 for Engineering Students and Birla White Cement Products” by Grasim Industries Limited (White Cement Divison) Raipur at National Institute of Technology Raipur, Chhattisgarh, India (4th August 2010).
13. Organized A Technical Presentation on “Birla White YunaRatan Awards – 2009 for Engineering Students and Birla White Cement Products” by Grasim Industries Limited (White Cement Divison) Raipur at National Institute of Technology Raipur, Chhattisgarh, India (22nd July 2009).

SEMINAR / WORKSHOP ATTENDED:

1. Two day workshop on Sustainable Construction Materials and Agricultural Waste” organised by Department of Civil and Engineering, VNIT Nagpur on Oct 11 to Oct 12, 2015 at VNIT Nagpur.
2. One day workshop under research project “Construction of Low Volume Roads on Soft Subgrade Soil Improved by Locally Available Marginal Materials” funded by Human Settlement Management Institute (HSMI), HUDCO New Delhi at Civil Engineering Department, National Institute of Technology Raipur in association with HSMI, HUDCO New Delhi on 14th August 2015.
3. One day workshop “Research Schemes in DST & Recent Advances in Civil & Transportation Engineering” under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur on 1st August 2015.
4. Workshop on “Intellectual Property Rights (IPR)” on 4th and 5th April 2014 organised by National Institute of Technology Raipur and Chhattisgarh Council of Science and Technology, held at National Institute of Technology, Raipur.
5. Workshop on “Intellectual Property Rights (IPR)” on 4th and 5th April 2014 organised by National Institute of Technology Raipur and Chhattisgarh Council of Science and Technology, held at National Institute of Technology, Raipur.
6. Workshop on Mathematical Modelling, Chemoinformatics and Quantum Chemistry on 19th February 2013 conducted by Department of Electronics & Telecommunication and Central Computing Center, held at National Institute of Technology, Raipur.
7. Workshop on “Deployment and Collaboration of Analytical Reports & Models” on February 1, 2013 held at National Institute of Technology Raipur.
8. Regional Educational Workshop on “Structural Engineering Solutions” organized by Civil Engineering Department, National Institute of Technology Raipur in

- association with Concept Tele Systems (Bentley Channel Partner) on 29th and 30th October 2012 at National Institute of Technology Raipur.
9. National seminar on “Emerging Concept of Green Buildings in Chhattisgarh”, organized on 17th October, 2012 at Hotel Golden Tulip, Raipur by E-Tech Consultancy Services & Enterprises GEC Structural Consultants & Contractors.
 10. All India workshop on ”Awareness of Indian Standards with Particular Reference to National Building Code (NBC) 2005” organised by The Institution of Engineers (India) Chhattisgarh State Centre, Raipur (Under the aegis of Civil Engineering Division Board IEI Kolkata) in association with Bureau of Indian Standards, New Delhi on 27th April 2012, at Raipur Chhattisgarh.
 11. QIP Course – AICTE Sponsored workshop on Engineering Optimization using Matlab and Excel held at IIT Guwahati, organised by Civil and Mechanical Engineering Department during February 29 to March 2, 2012.
 12. Indo – Norwegian Workshop on “Potential For Increased Use Of Mineral Wastes In Cement And Concrete” at Le Mariadian Hotel New Delhi on 20th Dec 2011, Sponserd by National Council for Cement and Building Materials and SINTEF Norway.
 13. Three days 44th Annual convention of Indian Water Works Association at Shri AgrasenDham, Raipur, CG, India (7th to 9th January 2012).
 14. Two days 27th National Convention of Civil Engineers and National Seminar on “Integrated Development on Town as Growth Centers”, The Institution of Engineers (India) Chhattisgarh State Centre, Raipur in Association with National Institute of Technology Raipur, CG, India, (15th and 16th October 2011).
 15. One day International Seminar/workshop on “Mega Foundations-Large and Deep Foundations,” Civil Engineering Department, Indian Institute of Technology Mumbai at Indian Institute of Technology Mumbai, India. (9th September 2010).
 16. Two days National Seminar on “Future Urbanization” organized by Arhitecture Department, National Institute of Technology Raipur at National Institute of Technology Raipur. (27th and 28th July 2010).
 17. Two days National seminar on “Hazardous Waste Management,” under Ministry of Environment and Forest Department, Government of India in association with National Institute of Technology Raipur at National Institute of Technology Raipur Chhattisgarh. (21st and 22nd August 2009).
 18. One day National Seminar/workshop on “Durability of concrete and Role of Blended Cements,” ACC Cements in Association with Civil Engineering Department, National Institute of Technology Raipur at National Institute of Technology Raipur Chhattisgarh. (29th March 2009).
 19. Geosynthetics India 2004, A Seminar-Workshop, organized by IIT Delhi and Indian Geotechnical Society, Delhi chapter (October 27-30, 2004).

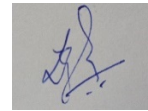
B. Tech. (Graduate Level) Final Year Thesis:

1. Chandrashekhar Ogrey, Tapan Kumar Chakravarty, SagarSahu, Jwala Kant Sahu, Rajkumar Sinha and Lokesh Chandrakar (2009). “Improvement of Soft Subgrade Soil by Rice Husk Ash for Low Volume Roads,” for the partial fulfillment for the

- requirement of Pt. Ravishankar Shukla University Raipur for the award of degree of Bachelor of Technology in Civil Engineering in 2009-2010 at National Institute of Technology Raipur Chhattisgarh.
2. Sandeep Kumar Sahu and Rahul Dev Berma (2010). "Stabilisation of soft soil using Rice Husk Ash for Rural Roads" for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2009-2010.
 3. Lawrence Kumar and Vinay Kumar (2010). "Ground Improvement and Soil Structure Interaction," for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2009-2010.
 4. Manvendra Kumar Singh Mayank Parakh and Tikeswar Verma (2011). "Soil Stabilisation with Fly-Ash & Design of Block-Type Machine Foundation using Matlab" for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2010-2011.
 5. Kamini Joshi, Paridhee Agrawal and Sarita Mishra (2011). "Stabilization of Soft Soil using Geosynthetics Material Gunny Bag," for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2010-2011.
 6. Omprakash Meena and Saurabh Singh (2012). "Stabilisation of Soft Soil using Rice Husk Ash And Fly Ash for Low Volume Roads" for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2011-2012.
 7. Lavanya Pushp Parganiha and Rohit Bhardwaj (2012). "Granulated Blast Furnace Slag as Stabilizer of Soft Sub Grade Soil for Low Volume Roads" for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2011-2012.
 8. Atul Kumar Singh and Jai Chand Bhagat (2012). "Stabilised soil using Fly Ash and Blast Furnace Slag for Low Volume Roads" for the partial fulfilment for the requirement of National Institute of Technology Raipur (C.G.) for the award of degree of Bachelor of Technology in Civil Engineering in 2011-2012.
 9. Abhishek Singh (2013). "Effect of thickness on load settlement behaviour of blast furnace slag overlay on soft clay under square Footing." at NIT Raipur.
 10. Dharmendra Prasad & Satish Gupta (2013). "Load settlement behaviour of reinforced granulated blast furnace slag with single layer of geogrid under circular footing: an experimental study." at NIT Raipur.
 11. Sunil Kumar (2013). "Statistical analysis of soil properties & numerical modelling of granular fill." at NIT Raipur.
 12. Rahul Ranjan & Rakesh Kumar Pure (2013). "Improvement of soft subgrade soil by fly ash for low volume roads" at NIT Raipur.

13. Ashish Kumar Nayak, Rajendra Bairwa & Poonam Wankhede (2013). "Load settlement behaviour of stabilized soil using fly ash and rice husk ash." at NIT Raipur.
14. Shruti A. & Vivek Kumar (2014). "Study of load settlement behaviour of granulated blast furnace slag as a granular fill under circular footing." at NIT Raipur.
15. Manisha Kujur & Karan Gupta (2014). "Load-settlement behaviour of unreinforced and reinforced granulated blast furnace slag overlay on soft clay under square footing." at NIT Raipur.
16. Ashish Mittal, Akbar Khan & Vaibhav Kumar (2015). "Improvement of soft soil using stone column method." at NIT Raipur.
17. Nishant Dubey, Peeyush Ramrakhyani and Sudhanshu Ranjan (2015). "Effect on bearing capacity of unreinforced and reinforced granulated blast furnace slag overlay on soft clay slope" at NIT Raipur.
18. K. Sourabh, Neha Chandra (2016). "Behavior of circular footing resting on improved soft soil by stone column and unreinforced and reinforced GBFS overlay" at NIT Raipur.
19. Kumar Amritesh and Vishal Kushwaha (2016). "Effect on bearing capacity of unreinforced and reinforced granulated blast furnace slag overlay on soft clay slope under square footing" at NIT Raipur.
20. Lokeshwari Kanwar, Priyanka, Shruti Rani Chandrakar, Suman Patel, Ranjni Bharadwaj(2017). "Stabilisation of soil by Industrial Waste With Lime" at GEC Raipur.
21. Abhishek Singh, Prateek Saxena, Anusriya Jain (2019) "Slope Stability Analysis of Fly Ash Dyke of NTPC Sipat"
22. Mehar Singh Jat and Narendra Singh Parihar (2019) "A study of soil moisture sensor and its application in different type of soil"
23. Tanmay Singh Vaishnavi Nayak Zajariya Rohit Sanjay (2020) "Simulating 1D consolidation of fully saturated soil using Abaqus" at NIT Raipur.
24. Sagar Bhardvaj and Y.Swati (2020) "A study on Reinforced Soil Wall" at NIT Raipur
25. Rahul Kumar Mishra (2021) "failure of slope using slope/w and proposed solution" at NIT Raipur
26. Palash Khatri and Sandeep Baroliya (2021) "Stability and design of red mud pond" at NIT Raipur
27. Bhavi Patel and Shraddha Rathore (2021) "Soil stabilization by Microbially Induced Calcite Precipitation" at NIT Raipur
28. Aditya Verma, Sanjeev Bhardwaj, Vishal Thakur (2022) "Design of Retaining Wall using Python" at NIT Raipur
29. Udit Gupta, Vedant Abhay Ashtikar (2022) "Structural Behaviour of Howe Truss Bridge on the Basis of Computer Simulation Software (STADD Pro)"
30. Kumar Vikas, Rahul Kumar Sahu (2023) "Improvement of Shear Strength Parameter of Sand using Biopolymers"

31. Arvind Gupta, Ujjawal Trivedi (2023) “Improvement of Shear Strength Parameter of Cohesionless Soil using Biopolymers”
32. Rahul Kumar Sinha, Rajiv Ranjan (2023) “Improvement of Shear Strength Parameter of Pond Ash using Biopolymers”
33. Jaykishan Sahu (2024) “Deep Learning for Automated Landslide Mapping(Predicting the Susceptibility of Landslide Using ML Model).
34. Anshika Rajput, Khemlata, Vaishnavi, Rahul (2024) “Use of geogrid for enhancement of CBR of the foundation.
35. Tammineni Santosh, Mahendra Lanjhi (2025) “Rainfall effect on slope stability of railway embankment at different saturation levels”
36. Harsh Dewangan, Vasudev Jangid (2025) “Reliability-based evaluation of soil stabilization using GGBFS, fly ash, and silica fume”
37. Adarsh Gaharwar, Junwin Chabin and Yugesh (2025) “Parametric study of static and dynamic behaviour of biochar-amended soil”.



Dr LaxmikanyYadu
Professor
Civil Engineering Department
National Institute of Technology Raipur
G.E. Road Raipur CG
