

Curriculum Vitae

Dr. Kumar Venkatesh

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(1) Area of Research Interest

Geotechnical Engineering, Geotechnical Earthquake Engineering/Soil Dynamics, Finite Elements in Geotechnical Engg. & Soil-Structure Interaction, ANN & ANFIS, Geo-Environmental Engg. & Waste Management.

(2) Education

- ***Ph.D.** (Civil Engineering- Geotechnical Engineering), 2006,
Indian Institute of Technology Roorkee, INDIA.
- ****M. Tech.** (Earthquake Engineering – Soil Dynamics), 2001,
Indian Institute of Technology Roorkee, INDIA.
- B.E.** (Civil Engineering), 1996,
MSRIT, Bangalore University, INDIA.
- ***Ph.D. Thesis Topic:** Barrage-Foundation Interaction under Static and Dynamic Loading
- ****M. Tech. Thesis Topic:** Validation of Assessment of Dynamic Shear Modulus of Soils using Artificial Neural Network

(3) Teaching and Research Work

A. Teaching:

UG and PG course; Developed/Modified PG/UG syllabus and added new subjects for Geotechnical Engineering; Upgraded Geotechnical Engineering Laboratory

B. Publication Summary:

Research Papers - 84

[Refereed Journals- Published: 23 ; International/National Conferences - Published: 61]

Book – 01, Edited Proceedings -03

C. Research Work Summary:

i. Supervision of B.Tech projects/M.Tech Thesis/Ph.D. Thesis

B.Tech. Projects supervised: 11 ; M. Tech Thesis Supervised/in Progress – 45

Ph. D Thesis Supervised (completed) - 04; Ph. D Thesis ongoing - 06

ii. Research Projects and Consultancy:

Research Projects – 02; Consultancy Projects- 100 +

iii. Conference/Seminar/ Workshop/Short Term Course/ Summer Training Programme Organized = 14

(5) Professional Experience: More than **14 Years** (in Teaching, Research and Administration (14 years in MNNIT Allahabad)

(6) Details of Employment at MNNIT Allahabad:

28.03.2018- Continue: **Associate Professor**, Department of Civil Engineering; MNNIT Allahabad, Prayagraj-211004, INDIA

01.01.2006-27.03.2018: Assistant Professor, Department of Civil Engineering; MNNIT Allahabad, Prayagraj -211004, INDIA at different AGP

Joined MNNIT Allahabad as Lecturer on 12-07-2005.

(7) Additional Experience and Qualification

Worked as “Project Associate” for *Research and Development Project Entitled “**Remote Sensing Aided Idealization of Space-Time Variant Behavior of Channel Geometry of River Brahmaputra**” sponsored by Ministry of Water Resources, New Delhi at IIT Roorkee in WRDTC from March 2001-July 2001.

Worked as Asstt. Engg. (Civil) for Estimations and Supervisions of Civil Engg. Works in S.P. Structures, from April 1998-July 1999.

Completed **PGDCA** with A Grade from CMC Ltd., New Delhi from October 1997-March 1998.

(8) Details of Thesis/Project Work**(a) PhD Thesis Guided/Guiding**

Sl. No.	Name of Candidate	Topic	Status	Year of Completion
1.	Yeetendra Kumar	Characterization of Soils using Soft Computing Methods	Completed	June 2014
2.	Vijay Kumar	Estimation of Liquefaction Potential of Soils using Soft Computing Methods	Completed	Oct 2015
3.	Tiwari Ritesh Kumar Chandrashekar	Slope Stability Analysis of Earth and Rockfill Dams	Completed	Dec 2017
4.	Rahul Das Gupta	Electrokinetic Remediation of Copper Contaminated Soil by Zero Valent Nano Iron Particle	Completed	Aug 2018
5.	Imran Ahmad Khan	Open Seminar Delivered		
6.	B. Naresh	In Progress		
7.	Ashish Mishra	In Progress		
8.	Amit Kumar Pandey	In Progress		
9.	Ravi Kumar Gautam	In Progress		
10.	Uma Kant Gautam	In Progress		

(b) M.Tech Thesis Guided/Guiding

Sl. No.	Name of Candidate	Topic	Status	Year of Completion
1.	Vimal Kumar Suntha	Evaluation of Liquefaction Potential of Soils using ANN	Completed	2006
2.	Praveen Kumar Chaubey	Dynamic Response of Dam including the effect of Soil Structure Interaction	Completed	2007
3.	Subodh Kr. Singh Rathore	Dam Foundation Interaction Behaviour under Static Loading	Completed	2007
4.	Amit Kumar Sonker	Response of framed Buildings Including Soil-Structure Interaction	Completed	2007
5.	Alankar Srivastava	Finite Element Analysis of Circular Tunnel under Varying Soil Properties	Completed	2008
6.	Kore Rajendra Ashok	Estimation of SPT N-Value using ANN Technique	Completed	2008
7.	Ravi Kumar Singh	Undrained Cyclic Behaviour of Cohesive and Cohesionless Soil	Completed	2008
8.	Alok Athaley	Dynamic Response of Framed Structure including the effect of Soil Structure Interaction	Completed	2008
9.	Vinay Prakash Chauhan	Stability Analysis of Slopes using Limit Equilibrium and Numerical Method	Completed	2009
10.	Ram Narayan Kumar	Design and Construction of Head Race Tunnel – A Case Study	Completed	2009
11.	Vijay Kumar	Prediction of Shear Strength Parameters of Soils using ANN Technique	Completed	2010
12.	Abhishek Anand	Rock Slope Failure-A Case Study of Rampur Hydro Electric Project	Completed	2010
13.	Santosh Singh	Design and Construction of Tail Race Tunnel- A Case Study	Completed	2010
14.	Prashant Kumar Kashyap	Stabilization of Virgin and Contaminated Expansive Soil using Cement Kiln Dust	Completed	2010

15	Prashanna K. Pandit	Dynamic Response of Asymmetric Framed Structure including the effect of Soil Structure Interaction	Completed	2011
16	Sonali Shrivastava	FEA of Single and Group piles	Completed	2012
17	Nisheet Tiwari	Estimation of Liquefaction using Neuro Fuzzy Technique	Completed	2012
18	Saurabh Kumar	Analyzing and Mitigating Liquefaction Hazard	Completed	2013
19	Shlok Singh	Behaviour of Shallow Foundation on Reinforced Soil	Completed	2013
20	Arpit Gupta	Slope Stability analysis under static and dynamic load	Completed	2014
21	Ghausul Azam Ansari	Behaviour of Retaining Wall under varying soil condition	Completed	2014
22	Imran Ahmad Khan	Finite Element Analysis of Tunnels	Completed	2014
23	Ravi Kumar Suman	Assessment of Liquefaction Potential using RVM	Completed	2014
24	Shivam Srivas	Modeling and Analysis of Tunnels in Soft Soil using Finite Element Method	Completed	2015
25	Sandeep Kumar	Behaviour of pile-raft foundation using Finite Element Method	Completed	2015
26	Shiv Ram Karumanchi	Seepage Analysis of Earthen Dam by Finite Element Method	Completed	2015
27	Pankaj Singh Rana	Geo-statistical analysis of Geotechnical Data of Allahabad City	Completed	2015
28	Mohit Somani	Divisional landfills:-A proposal for MSWM of Allahabad Division, Uttar Pradesh, India	Completed	2015
29	Bhimsen	Soil-Structure Interaction of Multistorey Building	Completed	2016
30	Amit Yadav	Stability Analysis of Landfill Slopes by FEM	Completed	2016
31	Kishore Kumar Gupta	Stability Analysis of Mountainous Slopes	Completed	2016
32	Shubhang Yadav	Soil-Pile Interaction under Lateral Load	Completed	2017
33	Avinash Kumar	Non-Linear Analysis of Tunnel using FE Modelling	Completed	2017
34	Anamika Anand	Stabilization of Black Cotton Soil using Stone Dust and Silica Sand	Completed	2017
35	Pavan Kumar Gaurav	Enhancement of Bearing Capacity of Black Cotton Soil Using Geotextile Material	Completed	2017
36	Shipra Sinha	Stability Analysis of Rock Slopes along Highway	Completed	2018
37	Lalit Kumar	Analysis of Contiguous Piles using FEM	Completed	2018
38	Umakant Gautam	Stabilization of soft soils using waste material combinations	Completed	2018
39	Govind Verma	Seismic Analysis of framed structure including Soil Structure Interaction	Completed	2018
40	Mohd. Munnawwar Qadir	Pile-Soil Interaction considering Contact Analysis	Completed	2019
41	Abhishek Mani	Stability Analysis of Slopes considering retaining wall	Completed	2019
42	Abhishek Gautam	Consolidation of Embankment for Non-homogenous Soil Stratum.	Completed	2019
43	Avneesh Budakoti	Lateral Behaviour of Pile under Dynamic Loading (In Progress)		
44	Shubham Agarwal	Behaviour of Multi-Storeyed Building Considering SSI Effect (In Progress)		
45	Amit Kumar	Evaluation of Bituminous mixes using Demolition Waste and Red Mud (In Progress)		

(c) B.Tech Project Guided/Guiding

Sl. No.	Name of Candidates	Topic	Status	Year of Completion
1.	a.Abhishek Kumar Mishra b.Ravi Shankar Kumar c.Aditya Singh	Comparative Analysis of Raft Foundation for a Typical Barrage	Completed	2008
2.	a.Varun Singh b. Manish Vikram c. Ravindra Vishwakarma d. Anoop Kumar	Geotechnical Investigation and Stability Analysis of Embankment for Expressway	Completed	2009
3	a.Vivek Dheer b. A.K. Kesarwani c. Rahul Rathore	Stabilization of Expansive Soil Using Cement Kiln Dust	Completed	2011

	d. J.P. Gond			
4	a.Prateek b. Ashish Kumar c. Naveen Kumar	Evaluation of Liquefaction Potential	Completed	2012
5	a. Ansar akhtar b. Shubhankar pandey c. Sunil meena d. Vikas chauhan	Seismic Behaviour of Gravity Dam	Completed	2013
6	a. Chetan Dixit b. Arjit Mishra c. Ram Bahadur Dorjee d. Abhishek Chandra Jha	Analysis and Design of Retaining Wall	Completed	2014
7	a.Shashank Shekhar Pandey b.Sajal Gupta c.Pramendra Singh	Analysis & Design of Raft Foundation	Completed	2015
8	a. Jatin Lakhmani b. Ashwani Kumar c. Divyanshu Shukla d. Alok Kumar	Analysis & Design of Earthen Dams	Completed	2016
9	a. Prabhav Upadhyay b. Puneet Sharma c. Mahendra Kumar Yadav d. Swapnil Kumar	Analysis of Non-Anchored and Anchored Sheet Pile Wall	Completed	2017
10.	a. Saksham Tripathi b. Umang Gupta c. Tejpal Yadav	Stability Analysis of Rock Slope	Completed	2018
11	a. Mohd Arish Ansari, b. Garima Yadav, c. Janga Jagadeesh Kumar, d. Sadhana Thakur	Analysis of Consolidation under Embankment	Completed	2019
12	a. Amandeep b. Akhilesh Kumar c. Sanu Raj d. Amar Kant Shukla	In Progress		

(9) Knowledge Dissemination

Conference/Short Term Course/Workshop/Summer Training Programme Organized

- A four week self-financed “ Summer Training cum Internship Programme in Civil Engineering” (STIPCE-2019) June 10 to July 05' 2019, Department of Civil Engineering, MNNIT Allahabad.
- National workshop on “Water Treatment Options for Priority Drinking Water Pollutants in Rural Area” March 27 to March 28' 2019, Department of Civil Engineering, MNNIT Allahabad.
- Indian Conference on Geotechnical and Geo-environmental Engg. (ICGGE-2019) March, 01-02, 2019, Department of Civil Engineering, MNNIT Allahabad.
- A four week self-financed “ Summer Training cum Internship Programme in Civil Engineering” (STIPCE-2017) June 11 to July 07' 2018, Department of Civil Engineering, MNNIT Allahabad.
- One week short term course on “Foundation: Analysis, Design and Construction Technique” (FACT-2018), May 21 to May 25' 2018, Department of Civil Engineering, MNNIT Allahabad
- A one day workshop on “Recent Advances in Geotechnical Engineering” RAGE-2018, 5th February 2018, Department of Civil Engineering, MNNIT Allahabad.
- A four week self-financed “ Summer Training cum Internship Programme in Civil Engineering” (STIPCE-2017) June 12 to July 08' 2017, Department of Civil Engineering, MNNIT Allahabad.
- A four week self-financed “ Summer Training cum Internship Programme in Civil Engineering” (STIPCE-2016) June 13 to July 10' 2016, Department of Civil Engineering, MNNIT Allahabad.
- International Conference on Geo-engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015), October, 9-11 2015, MNNIT Allahabad.

- A four week self-financed “ Summer Training cum Internship Programme in Civil Engineering” (STIPCE-2015) June 15 to July 12’ 2015, Department of Civil Engineering, MNNIT Allahabad.
- National Conference on “Geo-Environmental Issues And Sustainable Urban Development” (GEN-2014) October, 11-12, 2014, Department of Civil Engineering, MNNIT Allahabad.
- One Day Workshop on “Curriculum Development of M.Tech. Civil Engineering (Geotechnical Engineering)” 20th September 2014, Department of Civil Engineering, MNNIT Allahabad.
- Short Term Course (Self Finance) on “Geotechnical Investigations for Urban Planning and Development” 16-20th December 2013, Department of Civil Engineering, MNNIT Allahabad.
- National Conference on ‘Earthquake Disaster: Technology & Management’ EARTH’06 - February, 11-12th 2006, MNNIT, Allahabad.

International Conferences Attended & Presented Paper (Abroad)

- K. Venkatesh and Siva Ram Karumanchi (2016) “Distribution of Pore Water Pressure in an Earthen Dam Considering Unsaturated-Saturated Seepage Analysis”, E-UNSAT 2016, 12-14th September, 2016, **Paris, France**.
- K. Venkatesh, (2014) “ Application of Cement Kiln Dust to Stabilize Meja Soil” Proceeding of 2nd International Conference on Architecture and Civil Engineering (ACE-2014), March 24-25, **Singapore**.
- Dasgupta, R. Venkatesh, K. and Tiwari, R.P.(2012) “Electrokinetic Remediation of Copper Contaminated Soils by Zero Valent Nano Iron Powder” Proceedings of 5th International Congress of Environmental Research (ICER-12), UMT Terengganu, **Malaysia**, 22-24 November, 2012.
- Attended 13th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG) and Presented the Paper on Neurofuzzy Modeling Approach for Estimating Shear Strength Parameters of Cohesive Soil at Melbourne, **Australia**, 9-11 May, 2011.
- Attended 6th International Conference on Case Histories in Geotechnical Engineering and Presented the Paper on Approaches of Analysis of Ogee Shaped Barrage Raft Floor on Varying Foundation at Arlington, VA, **USA**, 11 – 16 August 2008.

Invited Lectures Organized

- A lecture delivered by Prof S. Mukerjee, Indian Institute of Technology Roorkee, Dec 19, 2014, at MNNIT Allahabad on “Effect Of Confining Pressure And Strain Amplitude On Dynamic Shear Modulus Of Soils” during Short Term Course on GIUPD-2013.
- A lecture delivered by Dr. S.M. Ali Jawaid, MMM University of Technology, Gorakhpur, Dec 18, 2014, at MNNIT Allahabad on “Sub-Surface Exploration & Sampling Techniques” during Short Term Course on GIUPD-2013.
- A lecture delivered by Dr. A.K. Singh, National Institute of Technology Jamshedpur, Dec 20, 2014, at MNNIT Allahabad on “Sub-Surface Exploration & Sampling Techniques” during Short Term Course on GIUPD-2013.
- A lecture delivered by Dr. P. S. Prasad, Sr. Scientist, CRRI, New Delhi, Dec 19, 2014, at MNNIT Allahabad on “Geotechnical Software” during Short Term Course on GIUPD-2013.
- A lecture delivered by Prof. Manoj Datta, IITD, New Delhi, 12th Oct 2014 at MNNIT Allahabad on “Some Case Studies Relating to Design , Construction, Closure and Remediation of Waste Disposal Facilities” during GEN-2014.
- A lecture delivered by Prof. B.V.S. Vishwanatham, IITB, Mumbai on 12th Oct 2014 at MNNIT Allahabad on “Studies on waste containment systems of Landfills” during GEN-2014
- A lecture Delivered by Prof. M.N. Viladkar, IITR, Roorkee on 5th Feb 2018 at MNNIT Allahabad on “Some Present and Future Geo-Mechanical Challenges” during RAGE-2018.
- A lecture Delivered by Dr. V.A. Sawant, IITR, Roorkee on 5th Feb 2018 at MNNIT Allahabad on, “Assessment of liquefaction potential using empirical method and numerical approach” during RAGE-2018.
- A lecture Delivered by Prof. N.K. Samadhiya, IITR, Roorkee on 5th Feb 2018 at MNNIT Allahabad on “Influence of seepage force on active and passive thrust for design of a rigid cut-off wall” during RAGE-2018.
- A lecture Delivered by Prof. G. L. Sivakumar Babu, IISc, Bangalore on 1st March 2019 at MNNIT Allahabad on “Role of municipal waste characterization in landfills and rehabilitation of waste dumps” during ICGGE-2019.
- A lecture Delivered by Prof. K. S. Rao, IITD, New Delhi on 1st March 2019 at MNNIT Allahabad on “SUBANSRI POWERHOUSE SLOPE FAILURES AND THEIR STABILITY” during ICGGE-2019.
- A lecture Delivered by Prof. P. V. Sivapullaiah [Professor (Retd) IISc, Bangalore], VC, Gitam University, Bangalore, on 2nd March 2019 at MNNIT Allahabad on “Behaviour of fine grained soils from void ratio in normal and contaminated environment” during ICGGE-2019.
- A lecture Delivered by Dr. Tadikonda V. Bharat, IITG, Guwahati on 1st March 2019 at MNNIT Allahabad on “Role and long-term behaviour of bentonite-based liners for landfill applications” during ICGGE-2019.
- A lecture Delivered by Dr. Abhishek Kumar, IITG, Guwahati on 2nd March 2019 at MNNIT Allahabad on “Importance of local soil from seismic aspect” during ICGGE-2019.
- A lecture Delivered by Dr. P. Bala Ramudu, IIT-BHU, Varanasi on 2nd March 2019 at MNNIT Allahabad on “A study on effect of alkali interaction on soil behaviour” during ICGGE-2019.
- A lecture Delivered by Prof. N.K. Samadhiya, IITR, Roorkee on 2nd March 2019 at MNNIT Allahabad on “Influence of seepage force on active and passive thrust for design of a rigid cut-off wall” during ICGGE-2019.

Invited Lecture Delivered

- Delivered Lecture on "Testing of Soil under Dynamic Load" in the Short term course on "Geotechnical Investigations For Urban Planning And Development" (GIUPD-2013) December 16-20, 2013, MNNIT Allahabad.
- Delivered Lecture on "Finite Element Method", 1st November 2014 at MNNIT Allahabad during short term course of numerical optimization techniques (NOT-2014).
- Delivered Lecture on "Permeability Test and its Applications", 25th November 2014 at MNNIT Allahabad on during short term course of RWH-2014.
- Delivered Lecture on "Geotechnical Investigations for Bridges" in Short Term Course of "Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015)", Department of Civil Engineering, MNNIT, Allahabad, Feb 2-6, 2015.
- Delivered Lecture on "Design of Foundations" in Short Term Course of Hydraulic and Structural Design of Water Tank and Water Retaining Structures for Water Supply Management February 24-28, 2015.
- Delivered Lecture on "Geotechnical Investigations" in Short Term Course of Construction Management in Water Supply Sector" (CMWSS-2015) April 6-10, 2015.
- Delivered Lecture on "Finite Element Method" during short term course of numerical optimization techniques (NOT-2015), September 2015.
- Delivered Lecture on "Finite Element Method", 9th September 2016 at MNNIT Allahabad during STC on Numerical and Optimization Techniques, 8th Sept-12th Sept 2016.
- Delivered Lecture "Modelling and Analysis using Finite Element Method", 25th September 2017 at MNNIT Allahabad during STC on Numerical and Optimization Techniques , 22nd Sept-26th Sept 2017.
- Delivered Lecture on "Modelling and Analysis using Finite Element Method", 13th October 2018 at MNNIT Allahabad during STC of NOT-2018.
- Delivered Lecture on "Soft Computing Methods on Liquefaction" delivered, 17th June 2019 at NIT Jamshedpur during Seminar of Civil Engineering Department.
- Delivered Lecture on "Application of FEM for DAM Engineering", 17th June 2019 at NIT Jamshedpur during Seminar of Civil Engineering Department.
- Delivered Lecture on "Geotechnical Design Concepts of Foundation", 24th June 2019 at MNNIT Allahabad during Internship Programme Design-2019 .

Book/Proceedings Publication

- Edited Proceedings National Conference on "Geo-Environmental Issues And Sustainable Urban Development" (GEN-2014) held during October, 11-12, 2014, at MNNIT Allahabad.
- Edited Proceedings of International Conference on Geo-engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015), held during October, 9-11 2015 at MNNIT Allahabad.
- Published Book on "Dye Wastewater Treatment Technology" ISBN No.: 978-3-639-66623-6, Scholar's Press (International Publisher), 2017.
- Edited Proceedings of Indian Conference on Geotechnical and Geoenvironmental Engineering (ICGGE-2019), held during March, 01-02, 2019 at MNNIT Allahabad.

Reviewer of Journals/Books

- International Journal of Geosynthetics and Ground Engineering
- Innovative Infrastructure Solutions
- International Journal of Earth Sciences and Engineering
- Desalination and Water Treatment
- Recent Patents on Computer Science
- International Journal of Environment and Waste Management
- Scientia Iranica Journal
- Journal of Institution of Engineers: Series A
- Pearson Book Publications
- Springer Book Publications

(10) Research/ Consultancy Work/Publications

Research Projects & Consultancy

- Research Project entitled "Geo-environment evaluation of open waste dumps and strategies for their rehabilitation" Completed in August 2009 which was sanctioned in August 2007, funded by MNNIT Allahabad.
- Technical Evaluation of The Pradhan Mantri Gram Sadak Yojana (**PMGSY**), centrally and state govt. Sponsored Schemes, from Feb 2006 to August 2011.
- Consultancy Provided to Central, State Govt Organization, Public & Private Sectors.

Refereed Journals Publications

1. Naresh, B. **Venkatesh, K.** & Mishra, L.K. (2019) "Q factor of Punjab Basin" International Journal of Scientific Research and Review, 7:9, 111-118.
2. Kumar, S., Pandey, H. K. Singh, P. K & **Venkatesh K.** (2019) "Demarcation of Probable Failure Zones Based on SMR and Kinematic Analysis", Journal of Geomatics, Natural Hazards and Risk, 10:1, 1793-1804, DOI: 10.1080/19475705.2019.1618399
3. Venkatesh, S. and **Venkatesh, K.** (2019) "Ozonation for Degradation of Acid Red 14: Effect of Buffer Solution" Journal of Proc. Natl. Acad. Sci., Sect. A Phys. Sci, Online First, pp 1-4.
4. Venkatesh, S. Quaff, A.R. and **Venkatesh, K.** (2017) "Dye Decomposition By Combined Ozonation and Anaerobic Treatment: Cost Effective Technology" Journal of Applied and Research Technology, Vol 15, pp 340-345. ISSN: 1665-6423
5. Dasgupta R., **Venkatesh K.**, and Tiwari R.P. (2016) "Electrokinetic Removal of Copper Contaminated Soil by Nano Iron Particle", International Journal of Innovative Studies in Sciences & Engineering Technology, Vol.2, Issue 6, (ISSN 2455-4863). pp 18-23.
6. Gupta, Y.K. and **Venkatesh, K.** (2015) "Seismic Behaviour of Framed Structure including Foundation System" Discovery Journal, 42(195), pp- 272-281, ISSN 2278-5469 EISSN 2278-5450.
7. Khan, A.I., **Venkatesh, K.** and Srivastava, R.K. (2015) "Analysis of Different Tuneels in various types of Rocks by FEM", Discovery Journal, 40(181), pp- 69-75, ISSN 2278-5469 EISSN 2278-5450.
8. Bhimsen, Jain, M, and **Venaktesh, K.** (2015) "Parametric Assessment of Soil Nailing- A review" Discovery Journal, 42(191), pp-1-5, ISSN 2278-5469 EISSN 2278-5450.
9. Venkatesh, S. Quaff, A.R. Pandey, N.D. and **Venkatesh, K.** (2015) "Impact of Ozonation on Decolorizaion and Mineralization of Azo Dyes: Biodegradability Enhancement, By-Products Formation, Required Energy and Cost" International Journal of Ozone : Science & Engineering, ISSN: 0191-9512 print / 1547-6545, DOI: 10.1080/01919512.2015.1027810.
10. Kumar, V. **Venkatesh, K.** and Tiwari, R.P (2014). "A Neurofuzzy Technique to Predict Seismic Liquefaction Potential of Soils" International Journal of neural network world, Vol 03/24, 249-266, DOI: 10.14311/NNW.2014.24.015,ISSN1210-0552 (Print) ISSN 2336-4335 (Online)
11. Venkatesh, S. Quaff, A.R. Pandey, N.D. and **Venkatesh, K.** (2014) Decolorization and mineralization of C.I. direct red 28 azo dye by ozonation" International Journal of Desalination and Water Treatment DOI:10.1080/19443994.2014.992047.
12. **Venkatesh, K.** Kumar, V. and Tiwari, R.P. (2013) "Appraisal of Liquefaction Potential using Neural Network and Neuro Fuzzy" Applied Artificial Intelligence: An International Journal, 27:8, 700-720, DOI: 10.1080/08839514.2013.823326, Taylor & Francis
13. Kumar, V. **Venkatesh, K.** Kumar, Y. Tiwari, R.P. (2012), "Application of ANN to Predict Liquefaction Potential" International Journal Of Computational Engineering Research, Vol. 2, No.2, pp. 379-389 (ISSN: 2250-3005).
14. Kumar, V. **Venkatesh, K.** Kumar, Y. (2012), "Liquefaction Potential Evaluation of Alluvial Soil by Neuro-Fuzzy Technique" International Journal of Emerging Technology & Advanced Engineering, Vol. 2, No. 3, pp.174-184 (ISSN: 2250-2459).
15. Kumar, V. **Venkatesh, K.** Kumar, Y. (2012), "Approaches of Estimating Liquefaction Potential of Soils" International Journal of Structural and Civil Engineering, Vol.1, No.2, pp. 35-53 (ISSN: 2277-7032).
16. **Venkatesh, K.**, (2011), "Prediction of SPT N-Value using Artificial Neural Network Technique", International Journal on Recent Trends in Engineering and Technology, Vol. 5, No.3, pp. 39-41.
17. **Venkatesh, K.** (2010), "Free Vibration Analysis of Structure-Raft-Soil System on Homogeneous Media", International Journal of Recent Trends in Engineering, Vol. 3, No.6, pp. 24-26.
18. **Venkatesh, K.**, Gupta, Y. K., Athaley, A. (2009), "Free and Forced Vibration Interactive Analysis of a Framed Structure under Varying Soil Medium" The Icfai University Journal of Structural Engineering , Vol. II, No.3, pp. 48-64.
19. **Venkatesh, K.**, Samadhiya, N. K. and Pandey, A. D. (2009), "Response of Raft Foundation on Varying Stratum", International Journal of Recent Trends in Engineering (Civil Engineering), Vol. 1, No.6, pp.16-19.
20. Pandey, A.D., Sharma, N., **Venkatesh, K.** and Kulkarni, M.D. (2005), " Comparative Study on Analysis of Barrage Raft by Hetenyi's method and FEM" Water and Energy International Journal, Vol. 62 No. 1, pp. 40-47.
21. **Venkatesh, K.**, Samadhiya, N. K. and Pandey, A. D. (2005), "Analysis of Barrage Raft Floor on Varying Foundation Media" International Dam Engineering Journal, Vol. 16, No.2, pp. 153-167.
22. Sharma, N., Pandey, A.D. and **Venkatesh, K.** (2004), "ANN Model Development for Bank-line Migration of River Brahmaputra Using Remote Sensing Data." ISH Journal of Hydraulic Engineering, Vol. 10, No. 1, pp. 56-64.
23. Sharma, N., Pandey, A.D. and **Venkatesh, K.** (2002), "Modelling of Brahmaputra River Cross-Sections Using ANN Technique." Water and Energy International Journal, Vol. 59 No. 3, pp. 20-29.

National/ International Conferences Publications

1. Mani, A. & Venkatesh, K. (2019) "Stability Assessment of Road Embankment Slope by Finite Element Method" International Conference on Geotechnics for High Speed Corridors, 25th and 26th July 2019, Thiruvananthapuram, India, pp-235-239.
2. Gautam, A. Venkatesh, K. & Kumar, S. (2019), "Consolidation of Sequential Construction of Embankment Using Non-Homogeneous Soil Stratum" International Conference on Geotechnics for High Speed Corridors, 25th and 26th July 2019, Thiruvananthapuram, India, pp-508-511.
3. Naresh, B. Venkatesh, K. & Mishra, L.K. (2019) "Q Factor of Punjab Basin" 8th International Conference on Multidisciplinary Research, 6-7 Sept 2019, Osmania Univ, Hyderabad, ISBN 978-81-941721-5-4 (www.conferenceworld.in).
4. Gautam U.K., Venkatesh K., & Kumar V. (2019) "Analysis of Slope Stability with Surcharge" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 14, 1-2 March 2019, MNNIT Allahabad.

5. Kumar S., Pandey H.K., & Venkatesh K. (2019) "Kinematic Analysis of Rock cut slope along SH-5 at Markundi, Chopan, District Sonbhadra (U.P.)" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 14, 1-2 March 2019, MNNIT Allahabad.
6. Gautam A., Kumar S., Pandey H.K., & Venkatesh K. (2019) "Utilization of Slake Durability and Point Load Test to Establish the Relationship for UCS of Markundi Sandstone, Markundi, Sonbhadra (U.P.)" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 15, 1-2 March 2019, MNNIT Allahabad.
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8. Kumar L., Yadav H., & Venkatesh K. (2019) "Parametric Study of Contiguous Pile For Deep Excavation" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 26, 1-2 March 2019, MNNIT Allahabad.
9. Gautam R.K., & Venkatesh K. (2019) "Statistical Analysis of The Completeness of A Seismic Catalogue" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 36, 1-2 March 2019, MNNIT Allahabad.
10. Bind Y.K., Ahamed A. & Venkatesh K. (2019) "Conventional and FEM Approach For Design of Cantilever Sheet Pile Wall" Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), ISBN 978-93-80634-47-0, Page 37, 1-2 March 2019, MNNIT Allahabad.
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12. Gautam U.K., Venkatesh K., and Kumar V. (2018) "Soil Stabilization Using Combined Waste Material. Indian Geotechnical Conference (IGC-2018), Dec 2018, IISc Bangalore.
13. S. Sinha and K. Venkatesh (2017), "Stability Analysis of Rock Slope using Numerical Approach" Fourth Indian Landslide Congress, 8-9, Dec 2017, IIT Bombay, Mumbai.
14. I.A. Khan, K. Venkatesh and R.K. Srivastava and A.K. Sahu (2017), "Elasto-plastic finite element analysis of deformations in deep interacting tunnels – A comparative study", International Conference on underground excavations in difficult ground conditions: issues & challenges 27-28 April 2017, New Delhi.
15. I.A. Khan, K. Venkatesh and R.K. Srivastava (2017), "Elasto-plastic analysis of deformations in twin interacting horse shoe tunnels by different yield criteria", Sixth Indian Young Geotechnical Engineers Conference 6IYGEC2017, 10-11 March 2017, NIT Trichy, India.
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18. I.A. Khan, K. Venkatesh and R.K. Srivastava (2016), "Elasto-Plastic Analysis Of Stresses In The Pillar Zone Of Twin Interacting Horse Shoe Tunnels", VII Brazilian Symposium on Rock Mechanics – SBMR 2016. ISRM Specialized Conference 19-22 October, Belo Horizonte, Minas Gerais, Brazil.
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21. I.A. Khan, K. Venkatesh and R.K. Srivastava (2016), "Elasto-plastic finite element analysis of twin interacting deep horse shoe tunnels", Indian Geotechnical Conference IGC2016, 15-17 December 2016, IIT Madras, Chennai, India.
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23. Y.K. Bind and K. Venkatesh, (2014) "ANN and Neuro-fuzzy based approach for Shear Strength characterization of Soil," International Conference RTCCE-2014, MNNIT Allahabad, 2014, pp. 37.
24. Y K Bind, Hussein Saadi Abbood & Kumar Venkatesh, (2014) "Site Exploration and Design of Radioactive Waste Landfill in Al-tuwaittha, Iraq," National Conference GEN-2014, MNNIT Allahabad, 2014, pp.-56-62
25. Mohit Somani, R. K. Srivastava & Kumar Venkatesh, (2014) "Tariff on Municipal Solid Waste Management- Across the World & India: A Review, National Conference GEN-2014, MNNIT Allahabad, 2014, pp.-189-193
26. K. Venkatesh, (2014) "Application of Cement Kiln Dust to Stabilize Meja Soil" Proceeding of 2nd International Conference on Architecture and Civil Engineering (ACE-2014), March 24-25, Singapore.
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29. Venkatesh, S. and Venkatesh, K., "Air Pollution : Management and health hazards in mega cities of India Proceedings of 5th International Congress of Environmental Research (ICER-12), UMT Terengganu, Malaysia, 22-24 November, 2012.
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32. Vijay Kumar, Kumar Venkatesh, Yeetendra Kumar, "Liquefaction Potential Evaluation of Alluvial Soil by ANN Technique", ISET Golden Jubilee Symposium, IIT Roorkee 2012.
33. Yeetendra Kumar, Kumar Venkatesh & Vijay Kumar, "An approach for USCS Identical classification of soil using Artificial Neural Network Technique", An International Conference on Geotechnics for Sustainable Development GEOTEC HANOI 2011, Hanoi, Vietnam, 6-7 October 2011.
34. Venkatesh, K. Kumar, Y. and Kumar, V. (2011) "Neurofuzzy Modeling Approach for Estimating Shear Strength Parameters of Cohesive Soil" Proceedings of the 13th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), Melbourne, Australia, 9-11 May, 2011.
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36. Venkatesh, K. (2010) "Behaviour of Circular Tunnel under Varying Soil Medium" Proceedings of Indian Geotechnical Conference (IGC 2010) at IIT Mumbai, India, 16-18 December 2010.
37. Kumar, Y., Kumar, V. and Venkatesh, K. (2010) "Estimation of Liquid and Plastic Limit using Artificial Neural Network Models" Proceedings of Indian Geotechnical Conference (IGC 2010) at IIT Mumbai, India, 16-18 December 2010.
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57. Venkatesh, K., Pandey, A. D. and Samadhiya, N. K. (2006), "Effect Of Elastic Modulus Of Foundation Media On Response Of Barrage Raft Floor" Proc. National Conference on Earthquake Disaster Technology and Management, Indian Geotechnical Society, 11-12 February 2006, Allahabad, pp IV-40-43.
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(11) Institute /Departmental Administrative Work

1. Member, SMPC-August 2019 till date
2. Convener, DMPC- August 2019 till date
3. O.C. Geotechnical Lab- May 2019-till date
4. Member, DPC- August 2017 till date
5. Member, DDPC- August 2017 till date
6. Member, DUGC-August 2019 till date
7. Convener, DUGC,CED August 2017 – July 2019
8. Member, SUGC- August 2017-July 2019
9. O.C. Time Table, CED December 2016- June 2019
10. Convener, DPC, Oct 2016 till July 2017
11. O.C. of Geotechnical engineering lab, CED, from July 2014 till December 2016
12. O.C. PG Programme Geotechnical and Geo-environmental Engineering from August 2011 to May 2016
13. Coordinator, Avishkar, Student Activity Centre from Aug 2010 till July 2017.
14. Member, Departmental Purchase Committee from August 2011 till September 2016.
15. Ex Member DMPC, CED from July 2013 to June 15
16. Ex O.C. of Geotechnical engineering lab, CED, from August 2011 to Feb 2013.
17. Ex Member, DPGC, CED from July 2012 to June 2013
18. Ex O.C. Civil Maintenance (Colony) from August 2009 to 10th July 2012
19. Ex Convener , House Allotment committee from August 2009 to 10th July 2012
20. Ex O.C. Civil Maintenance (Academic) from June 2011 to 10th July 2012
21. Ex Convener , ICCM from June 2011 to 10th July 2012
22. Ex Warden, Tagore Hostel from July 2006 to June 2008
23. Ex O.C. of Geotechnical engineering lab, CED, from February 2006 to May 2008.
24. Ex Member DUGC, CED from August 2011 to July 2012
25. Ex Member, PMGSY from September 2005 to August 2011
26. Ex Member, Central Purchase Committee from August 2006 till November 2010
27. Ex Member, Departmental TEQIP Committee from April 2008 to June 2009
28. Ex Member, DPGC, CED from May 2010 to July 2011.
29. Ex Member, DUGC, CED from April 2008 till April 2010
30. Ex Member, DPGC, CED from September 2005 to September 2006
31. Ex Convenor, DST-FIST, CED for proposal submitted in 2006

Other Responsibilities

1. Chairman, Indian Geotechnical Society, Allahabad Chapter, Praygaraj
2. External Member of RDC for PhD Thesis at MANIT Bhopal.
3. PhD Thesis Examiner SGV University Jaipur, 2018.
4. Theses Examiner in June 2019 at NIT Jamshedpur
5. Theses Examiner in June 2018 at NIT Jamshedpur
6. Executive Member of Indian Society of Earthquake Technology from April 2013 to March 2015
7. Executive Member of Indian Society of Earthquake Technology from April 2011 to March 2013
8. O.C. Exam AMIE Summer 2010,WINTER 2010 Allahabad Centre.
9. Exam Superintendent AMIE Winter 2009, Allahabad Centre.
10. Center Controller, UPTU Exam in 2006 Varanasi, 2007 Kanpur, 2008 Varanasi.
11. Theses Examiner in August 2007 at MANIT Bhopal
12. Theses Examiner in August 2010 at MANIT Bhopal
13. Thesis Examiner in July 2013, July 2018 at G. B. Pant Nagar.

(12) Awards/Fellowship & Membership of Professional Societies & Organization:

Awards/Fellowship

- Awarded Scholarship during M.Tech after qualifying GATE at IIT Roorkee (1999-2001)
- Awarded MHRD Fellowship during PhD Degree programme at IIT Roorkee (2002-2005)
- "Bharat Jyoti Award" by IIFS, New Delhi (May 2012)

Member

- Life Member, Indian Geotechnical Society.
- Life Member, Indian Society of Earthquake Technology.
- Member, The Institution of Engineers (India).