

## BIO-DATA



1. Name (in Block letters) : **Dr. S. KRISHNAIAH**
2. Designation : Professor
3. College in which working : JNTUA College of Engineering,  
Ananthapuramu,  
A.P.- 515 002
4. Date of Birth : 15-07-1965
- Nationality & Religion : Indian, Hindu
5. Educational Qualifications : **M. E., Ph. D(IITB)**

<b>Degree</b>	<b>Class / Division</b>	<b>University</b>	<b>Year of Passing</b>
Bachelor Degree B. Tech. (Civil Engg.)	I <sup>st</sup> Class	S V University, Tirupati	1989
Post Graduate Course M.E., (Foundation Engg.)	I <sup>st</sup> Class with Distinction	Goa University, Goa	1993
Ph.D., (Geotechnical Engg.)		I.I.T., Bombay	2003

6. Memberships: FIE, MISTE, MIGS, CE

7. Date of first appointment and cadre : 21-09-1994\* (Lecturer in Civil  
Engineering, presently designated as  
Asst. Professor)

\* Earlier served as Adhoc Lecturer in Civil Engineering for about 1 year at JNTU College of Engineering, Kakinada

8. Service in different cadres :

<b>Cadre</b>	<b>Service</b>	
	<b>From</b>	<b>To</b>
Assistant Professor (Lecturer)	21-09-1994	20-09-2003
Associate Professor (Reader)	21-09-2003	31-01-2011
Professor	01-02-2011	Till date
I/C HOD	December 2007	December 2008

Head of Civil Engg. Dept.	January 2009	March 2011
OSD to JNTUA CE Kalikiri	13-03-2013	25-07-2013
Principal to JNTUA College of Engineering, Kalikiri	25-07-2013	12-11-2014
Registrar, JNTU Anantapur	13-11-2014	27-05-2019

9. List of Publications:

<b>Publications</b>	<b>Research Papers</b>
<b>International</b>	
i) Journals	57
ii) Conferences	10
<b>National</b>	
i) Journals	14
ii) Conferences	13
Total	94

## **List of Publications**

### **International Journals**

1. Krishnaiah, S. and Singh, D.N. (2003). "A Methodology to Determine Soil Moisture Movement Due to Thermal Gradients", Experimental Thermal and fluid Science, Vol.27, pp:715-721
2. Krishnaiah, S. and Singh, D.N. (2003). "Determination of Influence of Various parameters on Thermal Properties of soils", International Communications in Heat and Mass Transfer, Vol.30, No.6,, pp:861-870
3. Krishnaiah, S. and Singh, D.N. (2004). "A Device for Determination of Soil Thermal Properties of soils", Journal of Testing and Evaluation, ASTM, Vol. 32, No.2, pp: 114-119

4. Krishnaiah, S. and Singh, D.N. Jadhav, G.N. (2004). "A methodology for determining thermal properties of rocks", *Int. Journal of Rock Mechanics and Mining Sciences*, Vol. 41, pp: 877-882.
5. Krishnaiah, S. and Singh, D.N. (2004). "Centrifuge modeling of heat migration in soils", *International Journal of Physical Modelling in Geotechnics*, Vol.4, No.3, pp: 39-47
6. Krishnaiah, S. and Singh, D.N. (2006). "Determination of Thermal Properties of Some supplementary cement material Used in Cement and Concrete", *Construction and building materials*, Vol.20, Issue3, pp:193-198
7. Krishnaiah, S. and Singh, D.N. (2006). "Determination of Thermal Properties of Soils in a Geotechnical Centrifuge", *Journal of Testing and Evaluation, ASTM*, Vol.34, No. 4, pp: 319-326
8. Suryanarayana, K.V., Murthy Rao, V. K., Krishnaiah, S. (2010). " Hydrological Dry Spells and its Impact on Dry Land Agriculture in Anantapur District(A.P)", *International Journal of Environment and Development*, Vol.7, No.1, pp: 35-45
9. Suryanarayana, K.V., Krishnaiah, S., Murthy Rao, V. K., (2010). "Statistical Modeling of Rainfall, ground water Table rise and Area Irrigated in Anantapur District, Andhra Pradesh State, India", *International Journal of Environmental Engineering and Management*, Vol.1, No.1, pp: 33-38
10. Suryanarayana, K.V., Krishnaiah, S., Murthy Rao, V. K., (2011). " Hydro Geological Investigations and Ground water Utilization for Irrigation in Anantapur District (A.P)", *Research Journal of Engineering and Technology*, Vol.4, Issue 1, pp: 14-17
11. Balaji Reddy, B., Krishnaiah, S., (2013). "Non Verbal Communication Cues: an Urgent Required Skill for Achieving Effective Communication",*Int. J. of Scientific Research (IJSR)*, Vol. 2, Issue: 11,Nov. 2013, pp: 212-213
12. Balaji Reddy, B., Krishnaiah, S., (2013). "Know how to overcome the barriers and achieve the effectiveness of Communication",*Int. Multidisciplinary e-Journal*, Vol. II, Issue-XI,Nov. 2013, pp: 28-31
13. Ramachandra Prasad, V., Abdul Gaffar, S., Keshava Reddy, E., Anwar Beg, O., Krishnaiah, S. (2013). " A Mathematical Study for Laminar Boundary-Layer Flow, Heat, and Mass Transfer of a Jeffrey Non-Newtonian Fluid Past a Vertical Porous Plate," *Heat transfer – Asian Research*, © 2013 Wiley Periodicals, Inc., pp. 1-22

14. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S. (2014). "Indigenous development and testing of rotational viscometer for bituminous binders", Int. Journal of Civil and Structural Engineering, Vol. 4, No. 3, pp: 286-294
15. Venkata Ramaiah, G., Krishnaiah, S., Naik, M., Shankara., (2014). "Leachate Characterization and Assessment of Ground Water Pollution near MSW Dumpsite of Mavallipura, Bangalore,"Int. J. of Engineering Research and Applications, Vol.4, Issue 1, January 2014, pp. 267-271
16. Ramesh, N., Krishnaiah, S (2014). "Water Quality Assessment of Bellandur Lake in Bangalore City, Karnataka, India", Int. J. of Engg. Research & Technology (IJERT), Vol.3, Issue 3 (March 2014), pp: 270-274.
17. Ramesh, N., Krishnaiah, S (2014). "Assessment of Physico- Chemical Parameters of Bellandur Lake, Bangalore, India", Int. J. of Innovative Research in Science, Engg. And Technology (IJRSET), Vol.3, Issue 3 (March 2014), pp: 10402-10407.
18. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2014). "Efficiency and Transmission of Power Through Porous Media with Convergent Boundaries", Int. J. of Emerging Technologies and Applications in Engineering, Technology and Sciences (IJ-ETA-ETS), Vol. 7, Issue 1(Jan'14-June, 14), pp: 35-39.
19. Balaji Reddy, B., Krishnaiah, S., (2014). "The Role of Teacher in English Language Communication Skills Laboratory",Int. J. of Scientific Research (IJSR), Vol. 3, Issue: 9, Sept. 2014, pp: 145-146.
20. Ramesh, N., Krishnaiah, S (2015). "Assessment of characteristics of Urban area soil around Bellandur Lake, Bangalore, Karnataka, India", Int. Journal of Engineering Research and General Science (IJERGS); Volume 3, Issue 3, Part – 2, May - June 2015 ; PP: 332 – 336
21. Satya Sai, K.V.R., Krishnaiah, S., Manjunath, A., Lokeswari, S. (2015). " Surface Water Quality Studies of Krishna River Using Regression Analysis(Model)," Int. J. of Multidisciplinary Educational Research, Volume 4, Issue 2(1), pp:135-150
22. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S. (2016). "Performance of VG30 Paving Grade Bitumen Modified with Polyphosphoric Acid at Medium and High Temperature Regimes", Construction Building Materials(Elsevier Journal), Vol. 105, 15 February 2016, PP: 157-164
23. Kashinath, Uma. G. Hullur, Prakash, K.B., Krishnaiah, S. (2017). "Review on stabilization of soil", Journal for Advanced Research in Applied Sciences, Volume 4, issue 3, August 2017, pp: 32-34

24. Satya Sai, K.V.R., Manjunath, A., Krishnaiah, S., Ramanarayan, S.(2017). “ Application on Climatic Morpho-Genesis, Ground Water Assessment, Development and Management of Lower Krishna River in Andhra Pradesh,” Int. Interdisciplinary Research Journal, Volume 7, Special Issue, pp:238-242
25. Giri Babu, S.V., Krishnaiah, S (2018). “Manufacturing of Eco-friendly brick: A critical Review”, Int. J. of Computational Engineering Research(IJCER); Vol.08, Issue 2, Feb. 2018, pp: 24-32
26. Venkata Ramaiah, G., Krishnaiah, S., Kotresh, K., Siva Pullaiah, P.V. (2018). “Evaluation of Sorption Behavior of Heavy Metals by Contaminated Soil near a Municipal Waste Dumpsite”, IOSR Journal of Engineering (IOSRJEN), ISSN(e):2250-3021,ISSN(p):2278-8719, Vol. 8, Issue 4, April 2018, pp. 13-17
27. Venkata Ramaiah, G., Krishnaiah, S., Shankara, (2019). “Leachability behavior of heavy metals by contaminated soil with additives,” Ecology, Environment and Conservation, 25(2), pp. 643-649
28. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2019). “Improvement of Stabilization Characteristics of Black Cotton Soil Using Ternary Blend For Flexible pavement Construction”, Int. Organization of Scientific Research Journal of Engineering (IOSRJEN), vol. 09, Issue 11, Nov. 2019, pp: 32-39
29. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2020). “Determination of Optimum Value of Stabiliser For Stabilization of Black Cotton Soil Using Cement, GGBS and Matakaolin”, Int. Journal of Engineering Applied Sciences and Technology, Vol. 4, Issue 9, January 2020, pp: 120-123
30. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2020). “Determination of Bearing Capacity of Black Cotton Soil Stabilised With Ternary Blend For Filed Application”, Int. Journal of Engineering Applied Sciences and Technology, Vol. 4, Issue 11, March 2020, pp: 410-413
31. Satya Sai, K.V.R., Manjunath, A., Krishnaiah, S., (2020). “ Effect of Climate Change on Rainfall Trend in Krishna river Sub-Basin, Andhra Pradesh Using SDSM”, Int. Journal of Technical Innovation in modern Engineering & Science, e-ISSN: 2455-2585, Vol.6, Issue 8, August 2020, pp: 31-41
32. Satya Sai, K.V.R., Manjunath, A., Krishnaiah, S., (2020). “Groundwater level Forecasting Using Gravity Recovery and Climate Experiment (GRACE)By Artificial Neural Network(ANN) for Krishna River Basin”, Solid State Technology, ISSN: 0038-111X, Vol. 63, Issue 2s,October 2020, pp: 2300-2316

33. Sarath Chandra, K., Krishnaiah, S., Narala Gangadhara Reddy, Nabil Hossiney, Lin Peng, (2021). “Strength Development of Geopolymer Composites Made from Red Mud-Fly Ash as a Subgrade material in Road Construction”, *Journal of Hazardous, toxic, and Radioactive Waste, ASCE*, 2021, 25(1), pp: 04020068-1 to 10 **ISSN (print): 2153-5493 | ISSN (online): 2153-5515**, July 2021, DOI: [10.1061/\(ASCE\)HZ.2153-5515.0000575](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000575)
34. Pranay Kumar, G., Krishnaiah, S., (2021). “Comparative Study of Soil Stabilization With Glass Powder, Scrap Rubber Tires & Sea Sand: A Review”, *Int. Journal of analytical and experimental model analysis*, Vol. XIII, Issue I, January 2021, pp: 688-692.
35. Sarath Chandra, K., Krishnaiah, S., Kibebe Sahile, (2021). “Utilization of Red Mud-Fly Ash Reinforced with Cement in Road Construction Applications”, *Journal of Advances in Materials Science and Engineering*, Volume 2021, August 2021, Hindawi, Article ID 3728652, 8 pages, <https://doi.org/10.1155/2021/3728652>
36. Satya Sai, K.V.R., Manjunath, A., Krishnaiah, S., (2021). “Assessment of Flood Vulnerability Index for Krishna River Basin in Krishna, Guntur and Prakasam Districts of Andhra Pradesh ”, *Int. J. Syst. Assur Eng Manag*, Springer, Published online: 08 Sept 2021, 14 pages, <https://doi.org/10.1007/s13198-021-01222-8>
37. Sarath Chandra, K., Krishnaiah, S., Kibebe Sahile, (2021).” Comparative Study on Strength Properties of Redmud with Fly Ash and Redmud with GGBS to Use as a Subgrade Material”, *Design Engineering*, ISSN: 0011-9342, Issue:7, pp: 4438-4446
38. Satya Sai, K.V.R., Krishnaiah, S., Manjunath, A., (2021). “Statistical Downscaling of rainfall Under Climate Change in Krishna River Sub-basin of Anadhra Pradesh, india using Artificial Neural Network (ANN) ”, *Nature Environment and pollution Technology An International Quarterly Scientific Journal*, e-ISSN: 2395-6454, Vol. 20, No.2, pp: 805-818, <https://doi.org/10.46488/NEPT.2021.v20i02.043>
39. Sarath Chandra, K., Krishnaiah, S., (2022).” Strength and Leaching Characteristics of Red Mud (Bauxite Residue) as a Geomaterial in Synergy with Fly Ash and Gypsum”, *Transportation Research Interdisciplinary Perspectives* 13 (2022) 100566, pp: 1-6, Elsevier, Journal homepage: [www.sciencedirect.com/journal/transportationresearch-interdisciplinary-perspectives](http://www.sciencedirect.com/journal/transportationresearch-interdisciplinary-perspectives)
40. Sarath Chandra, K., Krishnaiah, S., (2022).” Evaluation on Effect of Alakaline Activator on Compaction Properties of Red Mud Stabilised by Ground Granulated Blast slag”, *ACTA IMEKO*, ISSN: 2221-870x, March 2022, Vol. 11, No. 1, pp: 1-6  
DOI: [http://dx.doi.org/10.21014/acta\\_imeko.v11i1.1200](http://dx.doi.org/10.21014/acta_imeko.v11i1.1200)

41. Sarath Chandra, K., Krishnaiah, S., (2022).” Study on Mechanical Properties of Lime Stabilized Active Bauxite Residue (Red Mud) and Fly Ash to Use as a Subgrade Material in Road Construction”, Int. Journal of Mechanical Engineering, Vol. 7, No.1, January 2022, pp: 2299-2308, ISSN: 0974-5823
42. Kashinath, Krishnaiah, S., Prakash, K.B. (2022). “ An Experimental Investigation on the Effect Of Metakaoline and Different Fibers on the Behaviour of Sulfate Infected BC Soil”, Int. J. of Engineering, Science and Mathematics, Vol. 11, Issue 04, April 2022, ISSN: 2320-0294, pp:20-37
43. Kashinath, Krishnaiah, S., Prakash, K.B. (2022). “ Improving the Characteristics Properties of Surface Infected BC Soil Using GGBFS and Different Fibres”, Int. Research Journal of Engineering and Technology(IRJET), Vol. 09, Issue 1, January 2022, e-ISSN: 2395-0056, p-ISSN:2395-0072, pp:528-541
44. Kashinath, Krishnaiah, S., Prakash, K.B. (2022). “ Effect of Silicafume and Different Fibres on the Behavior of Sulfate Infected BC Soil”, Int. Journal of Engineering & Scientific Research, Vol. 10, Issue 05, May 2022, ISSN: 2347-6532, pp:1-18
45. Kashinath, Krishnaiah, S., Prakash, K.B. (2022). “ Effect of Addition of Granite Stone Powder and Different Fibres on the Behavior of Sulfate Infected BC Soil”, Int. Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 10, Issue V, May 2022, pp:4, ISSN: 2321-9653, DOI: <https://doi.org/10.22214/ijraset.2022.43382>
46. Kashinath, Krishnaiah, S., Prakash, K.B. (2022). “ Effect of f Sulfate Infected BC Soil with the Addition of Lime Stone Powder and Different Fibres”, Int. Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 10, Issue V, May 2022, pp:4, ISSN: 2321-9653, DOI: <https://doi.org/10.22214/ijraset.2022.43372>
47. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2022). “Stabilization of Black Cotton Soil using Rice Husk Ash for Flexible Pavement Construction ”, Int. Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 10, Issue VIII, August. 2022, pp: 1870-1874, ISSN No.: 2321-9653  
DOI : <https://doi.org/10.22214/ijraset.2022.46535>
48. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2022). “Experimental Investigation on Black Cotton Soil”, Int. Journal of Research and Analytical Reviews (IJRAR), vol. 9, Issue 3, August. 2022, pp: 1870-1874,E- ISSN.: 2348-1269, P-ISSN: 2349-5138, Paper ID: IJRAR22C2197
49. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2022). “Experimental Investigation on Strength Properties of Black Cotton Soil Stabilized with GGBFS ”, Int. Journal

of Novel Research and Development (IJNRD), vol. 7, Issue 8, August. 2022, ISSN No.: 2456-4184, Paper ID: IJNRD2208162

50. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2023). “An Experimental Investigation on the Behavior of BC Soil Stabilized With Cement ”,Int. Journal of Novel Research and Development (IJNRD), Vol. 8, Issue 9, September 2023, pp: c270-c282, [www.ijnrd.org](http://www.ijnrd.org) (ISSN: 2456-4184), Paper ID: IJNRD2309232
51. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2023). “Effect of Stabilization of Black Cotton Soil Using Different Ternary Blends on Atterberg Limits ”,Int. Journal of Creative Research Thoughts (IJCRT), Vol. 11, Issue 10, October 2023, pp: e96-e113, [www.ijcrt.org](http://www.ijcrt.org) (SSN: 2320-2882), Paper ID: IJCRT2310462
52. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2023). “Analysis of the Strength Properties of BC Soil Stabilization Using Fly Ash as Stabilizer ”,Int. Journal of Research and Analytical Reviews (IJRAR), Vol. 10, Issue 4, October 2023, pp: 118-126, [www.ijrar.org](http://www.ijrar.org) (E- ISSN: 2348-1269, P-ISSN 2349-5138), Paper ID: IJRAR23D1519
53. Harinadha Babu, A.,Kumara Swamy, N., Krishnaiah, S., (2023). “Impact of Urban Waste on Quality of Ground Water and its Modeling Using Visual Mod Flow-A Critical Review”, Int. Journal for Research in Engineering Application & Management (IJREAM), Vol. 9, Issue 9, Dec 2023, pp: 58-66, ISSN: 2454-9150, Paper ID: **IJREAMV09I09105009, DOI : 10.35291/2454-9150.2023.0241**
54. Harinadha Babu, A.,Kumara Swamy, N., Krishnaiah, S., (2024). “Rainfall-Runoff Process of Pallikaranai Marshland Under the Influence of Perungudi Landfill Site Using HEC-HMS”, Int. Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 13, Issue 3, Feb 2024, pp: 4-12, [www.ijitee.org](http://www.ijitee.org), DOI: 10.35940/ijitee.C9804.13030224
55. Venkata Maheswara Reddy, M., Krishnaiah, S.,(2024). “A Critical Review on Evaluation of Sresses in Whitetopping”, Int. Journal for Research in Engineering Application & Management (IJREAM), Vol.9, Issue 12, March 2024, pp: 150-156, ISSN: 2454-9150, Paper ID: **IJREAMV09I12108057, DOI : 10.35291/2454-9150.2024.0075**
56. Venkata Maheswara Reddy, M., Krishnaiah, S.,(2024). “Experimental Study on Mechanical Properties of Macro Synthetics Fibres-Reinforced Binary Concrete Made by Ground Granulated Blast Furnace Slag and Fly Ash”, Int. Journal of Recent Scientific Research (IJRSR), Vol.15, Issue 4, April 2024, pp: 4658-4664, ISSN:0976-3031 , DOI: <http://dx.doi.org/10.24327/ijrsr.20241504.0871>
57. Venkatesh, G., Krishnaiah, S., Ramesh, G., (2024). “Assessment of Tannery Sludge Additions on Physico-Mechanical Properties of Clay Bricks”, Canadian Journal of Civil Engineering 00: pp: 1-16 (2024), DOI: [dx.doi.org/10.1139/cjce-2023-0241](http://dx.doi.org/10.1139/cjce-2023-0241)

## National Journals

1. Suryanarayana, K.V., Krishnaiah, S., Murthy Rao, V. K.,. (2010). “ Geo-Hydrological Investigations and Impact of water Harvesting Structures on Ground Water Potential in Anantapur District, Andhra Pradesh State, India”, National Journal of Environmental Science & Engineering, Vol.52, No.4, pp: 327-332
2. Suryanarayana, K.V., Krishnaiah, S., Murthy Rao, V. K., Balaji, K (2012). “ Meteorological Investigations and Impact of rainfall, Wet Days and Dry Days on the Yield of Rainfed Groundnut Crop in Anantapur District, Andhrapradesh”, Global Journal of Applied Agricultural Research, Vol. 2, No. 2, pp: 63-70
3. Ramesh, N., Krishnaiah, S (2013). “Scenario of Water Bodies (lakes) in Urban areas- A case study on Bellandur lake of Bangalore Metropolitan City”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Vol.7, Issue 3 (Jul-Aug. 2013), pp: 06-14.
4. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2014). “Convergent Angle Effect on Non- Uniform Flow Through Porous Media”, J. of Information, Knowledge and Research in Civil Engineering, Vol. 3, Issue 1(Nov’13 to Oct, 14), pp: 152-159.
5. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2014). “Effect of Convergent Angle on Non- Uniform Flow Through Porous Media”, ISH Journal of Hydraulic Engineering, 21(1), pp: 53-64
6. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2015). “Effect of Angle of Inclination on Non-uniform flow Through Porous Media”, J. of Porous Media, 18(9), pp: 879-892
7. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2015). “Effect of Convergent and Divergent Boundaries on Flow Resistance Through Porous media”, J. of Institution of Engineers (India): Series A, 96(4), pp: 301-309
8. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2016). “Bed Slope Effect on Non-uniform Flow Through Porous Media”, J. of Institution of Engineers (India): Series A, DOI 10.1007/s40030-016-0167-x, Aug. 2016

9. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S. (2018). “An Integrated Tool for Aggregate Blending for Bituminous Concrete Layer Using C# Programming”, Journal of Emerging Technologies and Innovative Research(JETIR), Vol. 5, Issue. 3, pp: 497-503
10. Vinayaka Rao, V.R., Venkata Ramayya, V., Krishnaiah, S., Amarendra Kumar Sandra (2019). “Experimental Assessment of Dense Bituminous Macadam (DBM) Binder Course with the Binder Modified with Poly Phosphoric Acid”, Journal of Indian Highways(IRC), Vol. 47, Number 6, pp: 11-19
11. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S. (2019). “Job Mix Formulation for Bituminous Concrete Grade II Using C# programming”, Proceedings of Engineering and Technology Innovation, Vol. 12, pp: 26-34
12. Venkata Ramayya, V., Krishnaiah, S. (2020). “Data Visualization Through Exploratory data Analysis (EDA) A Data Science Approach For Engineering Problems”, Parishodh Journal, Vol. IX, Issue III, March 2020, pp: 7672-7679
13. Harinadha Babu, A., Kumara Swamy, N., Krishnaiah, S., (2021). “A Study on Physico-Chemical Analysis of Ground Water and Heavy Metal Analysis of Leachate in Kodungaiyur Landfill Site, Chennai”, 2021, IOP Publishers: Materials Science and Engineering, 1112/1/012030, pp: 1-9
14. Venkata Maheswara Reddy, M., Krishnaiah, S.,(2024). “A Study on Durability and Microstructural Analysis for Macro Synthetic Fiber Reinforced Concrete With Supplementary Cementitious Materials”, Indian Journal of Science and Technology, Vol.17, Issue 16, pp:1663-1671, ISSN: (P-0974-6846, E-0974-5645), DOI: [10.17485/IJST/v17i16.701](https://doi.org/10.17485/IJST/v17i16.701); <https://www.indjst.org/>

## International Conferences

1. Krishnaiah, S. and Singh, D.N.(2001). “Influence of Physical Characteristics of the fly ash on its thermal properties”, Proc.of Int. Conf. on Industrial Pollution and Control technologies (ICIPACT-2001), 7-10 Dec., JNTU Hyderabad, pp: 518-521.
2. Krishnaiah, S. and Singh, D.N.(2003). “Laboratory Investigations on Heat and Mass Transfer Through the soil mass”, Proc. of the Int. Symposium on Lowland Technology, Saga University, Japan, Sept. 2002, pp: 63-66.
3. Krishnaiah, S. and Singh, D.N.(2003). “Centrifuge Modeling of Heat and Mass Transfer Through Soils”, 12<sup>th</sup> ARC, Singapore, Aug. 2003, pp: 393-396.
4. Krishnaiah, S. and Karmarkar, R.S.(2004). “Shear strength of lateritic gravelly soils”, Int.e\_conference on modern trends in Foundation Engg.: Geotechnical challenges and solutions, January 26-30, 2004, IITM, Chennai, pp: 7.6(6 pages)

5. Krishnaiah, S. and Singh, D.N.(2004). “A methodology to determine thermal properties of cement and concrete blocks”, Int. Conf. on Advances in concrete and construction, 16-18 Dec 2004, Hyderabad, pp:785-789
6. Krishnaiah, S. and Singh, D.N.(2008). “Thermal behaviour of fly ashes used in cement and concrete ”, Int. Conf. on Advances in concrete and construction, 07-09 Feb 2008, Hyderabad, pp: 289-302
7. Krishnaiah, S. and Suryanarayana Reddy, P. (2008).” Effect of clay on soil cement blocks”, 12<sup>th</sup> Int. Conf. of IACMAG, Goa, during,1-6 October 2008.
8. Venkat Ramayya, V., Vinayaka Rao, V.R., and Krishnaiah, S. “ Indigeneous Development of Dynamic Shear Asphalt Rheometer”, Int. Conference on Advances in Materials and Technologies for Infrastructure Development, 20-30 Sept 2011, NIT Calicut
9. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2014). “Implementation of Neural Network Models to Predict Resistance Flow Through Porous Media with Convergent Boundaries”, Blucher Mechanical Engineering Proceedings, 10<sup>th</sup> World Congress on Computational Mechnaics, May 2014, Vol.1, No.1, ISSN: 2358-0828, PP: 1-23
10. Satya Sai, K.V.R., Manjunath, A., Krishnaiah, S and Ramanarayan, S. (2016). “ Studies on Climatic Morpho-Genesis, Ground Water Assessment, Development and Management of Lower Krishna River in Andhra Pradesh’, First Int. Conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016), 22 and 23 December 2016,Aurora’s Scientific, Technological and Research Academy, Hyderabad
11. Uma.G.Hullur, Krishnaiah, S., Prakash, K.B., (2022). “Experimental investigations on Different Properties of Black Cotton Soil Stabilized with Silica Fume for Structural Application”, Paper ID: ICCIASH-2022/850, Page No. 16, Int. conference on Continuity, Consistency and Innovation in Applied Sciences and Humanities on 16<sup>th</sup> & 17<sup>th</sup> September, 2022(ICCIASH-22), St. Martin’s Engineering Collge, Dhulapally, Secunderabad

## National Conferences:

1. Krishnaiah, S., Chakravarthy, M.K., Singh, D.N., Naidu, A.D.(2001). “Modeling of Heat Migration Through Geomaterilas”, IGC 2001, Indore, 14-16 Dec 2001, pp: 16-17

2. Krishnaiah, S., Swami, B.L.P., Narasimha Reddy, N. (1998). "Studies on Light weight Fibrous Concretes for Optimum Properties", National Seminar on Advances in Special concretes, ICI, Bangalore, 23-24 Jan, 1998, pp: 182-191
3. Krishnaiah, S., Swami, B.L.P., Narasimha Reddy, N. (1998). "Behaviour of Admixture Fly Ash concretes After Retempering", National Seminar on Advances in Special concretes, ICI, Bangalore, 23-24 Jan, 1998, pp: 97-109
4. Krishnaiah, S., Viswanadham, B.V.S. (2000). "Appropriate Land filling of Municipal Solid Waste", Proc. Of the National seminar on Bio-Medical & Soild Waste Management, VJTI, Mumbai, Jan 15-16, 2000, pp:13-21
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6. Krishnaiah, S., Sathyanarayana, S.V. and Narasimhulu, G.(2000). "Mechanical Behaviour of MSW Landfills", Proc. Of the National Conf. MINAC 2000, JNTU Anantapur, 2000, pp: 205-208
7. Krishnaiah, S. and Singh, D.N. (2004). "Modeling of heat migration in sands", IGC-2004, Dec 18-20 Warangal, pp: 249-252
8. Krishnaiah, S., Pujitha, A., Niriha, K. and Silpa Devi, P. (2006). "Stabilization of BC soil with quarry waste for use in highway sub bases", National Conference on Civil Engineering systems 2006, June 1-3, 2006, pp: 106-115
9. Krishnaiah, S., Laxma rao, K. and B.N.V.Kiran Kumar. (2006). "Physical and Engineering properties of BC soil dried under extremely high temperatures", National Coferece on Corrective Engineering practices in Troublesome soils, Kakinada, 8-9 July, 2006, pp: 49-50
10. Krishnaiah, S. and Sashidhar Reddy, G.(2007). "Geotechnical Investigations for the construction of Chagallu Barrage in Anantapur District- A Case Study," National seminar on Case studies Engineering soils, JNTU CE Kakinada , 2<sup>nd</sup> Oct.2007
11. Manjunath, A., Satya Sai, K.V.R., Krishnaiah, S., and Abbaiah, G. (2013), " Studies on Land Use and Water Resources Management in Pandameru River Sub-basin of Penna River of AP in India", National Conference on " New Trends in Civil Engineering & Earth Sciences (NTCE 2013), Vasavi College of Engineering, Hyderabad, 5-6 February 2013, pp: 93-97
12. Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2014). "Efficiency and Transmission of Power Through Porous Media with Convergent Boundaries", a paper presented in the National Conference on Analysis, Design & Research in Engineering, Technology & Sciences held on 18/05/2014 at Kalol Institute of Technology & Research Kalol (N.G.) 382 721 Gujarat, India

13. Sarath Chandra, K and Krishnaiah, S. (2018). “A Detailed Geotechnical Investigation on Redmud and Chemical Analysis of its Leachate”, IGC 2018, IISc Bangalore, 13-15 Dec 2018, pp: Th 05\_058

**Achievements:**

1. **George Oomen Memorial Prize for The Institution of Engineers (India)** to Bhanuprakasham Reddy, N., Krishnaiah, S., and Ramakrishna Reddy, M. (2016) for their paper titled “Effect of Convergent and Divergent Boundaries on Flow Resistance Through Porous media”, J. of Institution of Engineers (India): Series A, 96(4), 2015
2. **Educational Leadership Award in Indo-Global Education Summit & Expo2017, Bangalore conducted by The Indus Foundation Inc, USA.**
3. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S., **Measurement of viscosity of Bituminous Binders in Roatational Mode through indirect measurement of Torque, Patent No. 4414/CHE/2015, Date of filing-24<sup>th</sup> August, 2015**
4. Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S., **Measurement of viscosity of Bituminous Binders in Roatational Mode through indirect measurement of Torque, India Patent Journal, pp: 5588, March, 2015**
5. He has been honored with **Rashtriya Gourav Award from International Friendship Society, New Delhi.**
6. His name was cited in **Who’s who in the world.**

**Patent Details:**

**Venkata Ramayya, V., Vinayaka Rao, V.R., Krishnaiah, S.,**

**Subject:** Measurement of viscosity of Bituminous Binders in Roatational Mode through indirect measurement of Torque

**Patent No.** 407252

**Application No.** 4414/CHE/2015

**Date of Filing:** 24-08-2015

**Date of grant of patent:** 21-09-2022

**Patent valid for 20 years from the 24<sup>th</sup> day of August 2015**

**Number of Workshops/ Guest Lectures attended:**

S.No.	Name of the Course	Name of the Institute and Place	Duration of the course
1	Operations Research	J.N.T.U.College of Engg., Anantapur	8-3-1995 to 6-4-1995
2	Soil and Water	J.N.T.U.College of	29-11-95 to 02-12-95

	Investigation and Foundation Techniques	Engg., Kakinada	
3	Fibre Reinforced Concrete Theory, Properties and Applications	J.N.T.U.College of Engg., Anantapur	8-4-1996 to 15-4-1996
4	Engineering of Ground	I I T Kanpur	12-5-1997 to 17-5-1997
5	Ground Improvement Technology	Bengal Engg. College, Howrah	12-7-1997 to 25-7-1997
6	Marine Geotechnology	S.V.U.College of Engg., Tirupati	21-7-1997 to 26-7-1997
7	Programming in C++ and Data Structures	J.N.T.U.College of Engg., Anantapur	31-12-1997 to 29-01-1998
8	Foundations on Weak Deposit	I I T Madras, Chennai	21-12-1998 to 25-12-1998
9	Numerical Methods with C for Scientists & Engineers	J.N.T.U.College of Engg., Anantapur	26-3-1999 to 24-4-1999
10	Recent Trends in Ground Improvement Techniques	I I T Bombay, Mumbai	27-12-1999 to 31-12-1999
11	Engineering Applications of Finite Element Analysis Using ANSYS	J.N.T.U.College of Engg., Anantapur	27-02-2006 to 11-.3-2006
12	International Course on Computational Geotechnics using Plaxis Software	I I T Madras, Chennai	21-23 February 2007
13	Management Capacity Development Training Programme for Principals, Deans, HOD's, SPFU Heads & Nodel Officers of Technical Institutes	MDI Gurgaon	9-14 February 2009
14	Ground Improvement techniques, GIT-2007	JNTUACE, Anantapur	25 <sup>th</sup> July, 2007
15	Developing Consciousness (Transcendental Meditation )	ATAL Academy- JNTUA	22 <sup>nd</sup> -26 <sup>th</sup> September 2020
16	Stress Management through Yoga and Meditation	AICTE FDP- JNTUA	16 <sup>th</sup> - 21 <sup>st</sup> November 2020

**Field of interest:**

- Geoenvironmental Engineering, Ground Improvement Techniques, Heat migration through geomaterials, Expansive soils

**Number of research scholars guided:**

<b>Degree</b>	<b>No. of Scholars obtained degrees</b>	<b>No. of Scholars submitted Ph. D Thesis's for evaluation</b>	<b>No. of Scholars yet to submit thesis</b>
Ph. D.	06	-	07

### **Details of Ph.Ds' Awarded:**

<b>S. No.</b>	<b>Name of the Research Scholar</b>	<b>Title of the Thesis</b>	<b>Supervisor/ Co-Supervisor</b>	<b>Year of Award</b>
1.	K.V.Suryanarayana [Reg. No. 0803PH2011] Presently working as Professor @ SRIT Anantapur	Geo – hydrological investigations and impact of rain water harvesting structures on ground water potential in Anantapur Distirct.	Supervisor	2011
2.	N. Bhanu Prakasham Reddy [Reg.No:11PH0103] D.E.E., Irrigation Dept., Tirupati	An experimental study on the effect of converging boundary on non uniform – flow through porous media	Supervisor	2016
3.	V. Venkat Ramayya [Reg.No:11PH0107] Faculty at MGIT Hyderabad	Experimental Investigation of VG 30 Bitumen Modified with Poly Phosphoric Acid	Co-Supervisor [Supervisor: V. Vinayaka Ram, BITS Hyderabad]	2017
4.	N. Ramesh [Reg. No. 12PH0101] Faculty in Govt. Engg. College, Karnataka State	Studies on the quality of Bellandur lake water using TSI techniques of USEPA and its effect on surrounding soil	Supervisor	2018
5.	G. Venkata Ramaiah [Reg. No. 11PH0109] Faculty in Govt. Engg. College, Karnataka State	Characterization of soil surface water and ground water surrounding waste dumpsites	Supervisor	2019
6.	K Sarath Chandra [Reg. No. 15PH0109]	Suitability of redmud as subgrade material	Supervisor	2022

	Faculty at Christ University (Deemed to be University), Bangalore	with combinations various industry waste materials		
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**ADDITIONAL REMARKS:**

- Chartered Engineer certification from Institute of Engineers
- Fellow member of Institute of Engineers
- Life member for Indian geotechnical Society(IGS)
- Academic Senate member for Audikavi Nannaya University
- Building Committee member for SKU Anantapur
- Worked as Registrar, JNTU Anantapur from November 2014 to May 2019
- Worked as Founder Principal to JNTUA College of Engineering from 25-07-2013 to 12-11-2014
- Worked as OSD to JNTUA CE Kalikiri from 13-03-2013 to 24-07-2013
- Acted as BOS Chairman for UG Courses at JNTUA Anantapur for 3 years
- BOS member for PG Courses at JNTUA Anantapur
- Coordinator for AICTE project, Modernization of Geotechnical Engineering lab
- Acted as **Head of Civil Engineering Department for 2 years from 2009 to 2011**
- Acted as **ICS Coordinator for 4 years**
- Actively involved in the consultancy works
- Coordinator for National level Student Symposium on “**Advances in Civil Engineering (ACE-2006)**” conducted on 1<sup>st</sup> March 2006
- Coordinator for Workshop on “**Effective Governance through Institutional Leadership**” held on 28-29 April 2006
- Coordinator for Workshop on “**Ground Improvement Techniques**” held on 25<sup>th</sup> July 2007
- Chairman for National level student symposiums RACE-2008, RACE-2009 and RACE-2010
- Chairman for National Conference on “**Recent Advances in Structural Engineering, RASE- 2008**” held on 4<sup>th</sup> April 2008
- Chairman for Workshop on “**Application of Artificial Neural Net works in Civil Engineering**” held on 16<sup>th</sup> Feb.2008
- Coordinator for the Services to the Community Programme on “**Mason Training programme for unemployed youth**” conducted in association with the Ultratech Cement Ltd during, 8-12 January 2008
- Coordinator for the Services to the Community Programme on “**Training for Head Masons**” conducted in association with the Zuari Cement Ltd on 23<sup>rd</sup> march 2008
- Chairman for the Services to the Community Programme on “**Surveying and Concrete Technology –Hand On Experience**” conducted during **17th Dec 2007 to 10th Jan 2008**
- Arranged several expert lectures in the Department of Civil Engineering by bringing several eminent Professors

- Chaired a session for **National Conference on Civil Engineering systems 2006** held at OU Hyderabad
- Chaired a postal session for **12<sup>th</sup> Int. Conf. of IACMAG** held at Goa



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