

# Dr. V. Venkat Ramayya

## Associate Professor



**Education Qualifications:** Doctor of Philosophy (Civil Engineering)  
**Specialization:** Traffic & Transportation Planning

### ADDRESS:

E- Block: Room No.06

### JNTUH ID:

32150330-184849

### EMAIL:

[vvramayya\\_civil@mgit.ac.in](mailto:vvramayya_civil@mgit.ac.in)

### DATE OF JOINING:

01-11-2011

### EXPERIENCE – 21 Years

- Teaching -20
- Research -5
- Industry -1

### SUMMARY:

- Publications - 20
- Conferences - 6
- Patents – 1
- Honors/Awards - 4

### EVENTS:

- Organized -5
- Attended - 40

### LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/in/dr-varanasi-venkat-ramayya-7252091a>
- <https://orcid.org/0000-0001-5900-2770>

### Membership of Professional Bodies:

1. Life Member of Indian Roads Congress (Membership No: ELM-102718)
2. Member of Institution of Engineers (Membership No: M-1700167)
3. Member of Institute of Scholars (Membership No : IEAE20180294)

### Responsibilities Held at Institution Level:

1. Member of Academic Audit Committee
2. Member of Equipment Servicing & Maintenance
3. Member of Library Committee
4. Member of IQAC.

### Responsibilities Held at Department Level:

1. Member of Department Advisory Committee
2. Member of BoS
3. Faculty In-charge for Internships
4. Faculty In-charge for UG Projects
5. In-charge of Transportation Engineering laboratory

### Honors/Awards Received:

1. Received Research Excellence Award from IEAE Awards for publishing research article in Construction and Building Materials of Elsevier.
2. Received Annual Merit Award for securing first position during B.Tech from JNT University
3. Secured first position at PG level and took Master's Degree with Honors from University of Calicut
4. Stood in top 2% and obtained Elite+Gold in all India NPTEL certificate examination in Geotechnical Engineering during April, 2019.

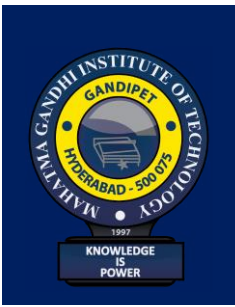
### Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Engineering Drawing / Engineering Graphics, Engineering Mechanics, Strength of Materials, Surveying, Transportation Engineering, Highway Pavement Design, Traffic Engineering, Geotechnical Engineering / Soil Mechanics, Foundation Engineering, Computer Aided Drafting of Buildings Laboratory (CAD Lab), Highway Materials Laboratory, Geographic Information Systems Laboratory

### Publications:

#### International:

1. Dr. V.Venkat Ramayya et al, Effect of Nano-modified Binder on Fracture Properties of Warm Mix Asphalt Containing RAP, Int. J. Pavement Res. Technol., ISSN 1996-6814, 1997-1400, January, 2022, Impact factor: 2.4, SCI & SCOPUS, Q1, <https://doi.org/10.1007/s42947-021-00133-y>
2. Adepu Ramesh, V. Venkat Ramayya, Gottam Sandeep Reddy, V. Vinayaka Ram, "Investigations on fracture response of warm mix asphalt mixtures with Nano glass fibres and partially replaced RAP material", Construction and

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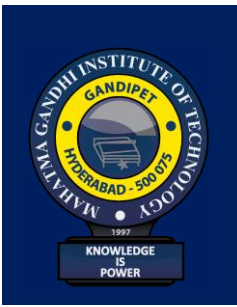
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Building Materials, Volume 317, 24 January, 2022, 126121, ISSN 0950-0618, <https://doi.org/10.1016/j.conbuildmat.2021.126121>

3. G. Kalyan, A. Ramesh, V. Venkat Ramayya, (2020) "Performance evaluation of warm mix asphalt mixture with partial inclusion of reclaimed asphalt pavement" J. Materials, Materials Today: Proceedings, August, 2020, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.09.242>.
4. Elchuri Rochishnu, A depu Ramesh, V aranasi Venkat Ramayya, (2020) "Sustainable pavement technologies - performance of high RAP in WMA surface mixture containing nano glass fibers", J. Materials Today: Proceedings, September, 2020, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.07.643>.
5. V. Venkat Ramayya et al., Job Mix Formulation for Bituminous Concrete Grade II Mixture using C# (C-Sharp) Programming - Proceedings of Engineering and Technology Innovation – Taiwan, Vol 12, 2019, pp 26-34.
6. V. Venkat Ramayya et al., Development And Testing of Direct Shear Rheometer As An Alternative Low Cost Instrumentation For Measuring Viscosity And Complex Modulus Of Bitumen Binders, International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.5, Issue 12, page no.599-607, December-2018.
7. V. Venkat Ramayya et al., An integrated tool for aggregate Blending for bituminous concrete layer Using C# Programming International Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 5 Issue 3, pp. 497-503, April 2018,
8. V. Venkat Ramayya et al., Analysis of a multi storey building frame for lateral loads using Portal Method – A critical Review, International Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 5 Issue 4., pp. 650-656, April 2018.
9. V. Venkat Ramayya et al., "Durability of Cement Stabilized Expansive Clay", International Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 5 Issue 2., pp. 125-126, Feb 2018.
10. V. Venkat Ramayya, V. Vinayaka Ram, S. Krishnaiah & Amarendra Kumar Sandra, Performance of VG30 paving grade bitumen modified with polyphosphoric Acid at medium and high temperature regimes, International Journal of Construction and Building Materials. Elsevier, Vol. 105, pp 157-164, February, 2016. <https://www.sciencedirect.com/science/article/abs/pii/S095006181530698X>
11. V. Venkat Ramayya, V.R. Vinayaka Rao & S. Krishnaiah "Indigenous Development & Testing of Rotational Viscometer for bituminous binders", International Journal of Civil & Structural Engineering, Volume 4 Issue 3 Feb, 2014. pp 286-294

**National:**

1. V. Venkat Ramayya & S. Krishnaiah, Data Visualization through Exploratory Data analysis (EDA) – A Data Science Approach for Engineering Problems, Parishodh, March 2020, ISSN 2347-6648, pp. 7672-7679.
2. V. Venkat Ramayya, V. Vinayaka Ram, S. Krishnaiah & Amarendra Kumar Sandra "Experimental Assessment of Dense Bituminous Macadam (DBM) Binder Course with the Binder Modified with Poly Phosphoric Acid", Indian Highways, Vol. 47. No. 6, June, 2019.
3. V. Venkat Ramayya, M. Sreeram, A. Ramesh, & M. Kumar, Laboratory Assessment of Warm Mix Asphalt Mixes When Prepared with Varying Packing Characteristics and Inclusion of Fibre, Indian Highways, Vol. 47. No. 6, June, 2019.

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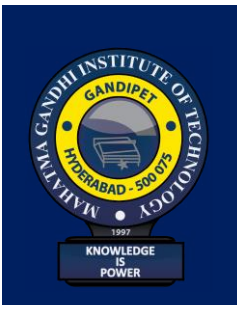
4. V.Venkat Ramayya, A.Ramesh, Influence of bitumen modification and gradation on performance characteristics of asphalt pavements, Institution of Engineers - Series A, February, 2019, Springer Publications.  
<https://link.springer.com/article/10.1007%2Fs40030-019-00369-9>
5. V.Venkat Ramayya et al., "Effect of Polypropylene granules in Asphalt Mix prepared with varying packing characteristics", Highway Research Journal, Vol 9. No.1, January-June, 2018.
6. V.Venkat Ramayya, R.Prasanna Kumar and Dr.G.Dhinakaran, "Performance evaluation of An Urban Arterial Through Quantification of Speed Variations", INDIAN HIGHWAYS, Vol 37, No.9, SEPTEMBER 2009.
7. V.Venkat Ramayya, C. R. Suribabu, R. Prasanna Kumar "Stream flow prediction by using Artificial Neural Networks" ABS No: 18, Journal of Applied Hydrology Vol. XVIII, No: 3, 2005.
8. V.Venkat Ramayya, C. R. Suribabu, R. Prasanna Kumar "Application of artificial Neural Network Model for inflow prediction: A Case Study" Indian Water Resources Society, Volume 24, Number 4, October, 2005.
9. V.Venkat Ramayya, R. Prasanna Kumar, T Kashinath, "Macro Level Study of Road Accidents on Dindigul - Palani Section of National Highway – 209", INDIAN HIGHWAYS, Nov 2004.

**Conferences:****International:**

1. V.Venkat Ramayya, K.Govind Goud & P.Sravana, Laboratory investigation of the properties of Asphalt and modified Asphalt Mixtures, International Conference on Recent Advances in Mechanical, Civil & Electrical Engineering, St. Martins Engineering College, 19-20 June, 2020, ISBN 978-93-80831-59-6.
2. V.Venkat Ramayya, V.R.Vinayaka Rao & Krishnaiah "Indigeneous Development of Dynamic Shear Rheometer" International Conference on "Advances in Materials and Techniques for Infrastructure Development (AMTID 2011)" organized by Dept. of Civil Engineering, NIT Calicut, Kerala, to be held during 28-30 September, 2011.
3. V.Venkat Ramayya, C. R. Suribabu, R. Prasanna Kumar, "Stream flow prediction by using Artificial Neural Networks", International Conference on "Watershed Development" with a special colloquium on Drinking Water supply in SAARC Countries held at Andhra University, Visakhapatnam, 16-19 October, 2003.

**National:**

1. V.Venkata Ramayya, Govind Goud Kotha, P.Sravana, Comparing the properties of asphalt and modified asphalt mixture, National Conference on Emerging Trends in Civil Engineering (ETCE-2020), Organized By KL University. 26-27 June, 2020.
2. V.Venkat Ramayya, S.Ramesh Kumar & P.V.S. Koteswara Rao "A study on speed variations in mixed mode environment using conventional and Exploratory data analytical (EDA) approaches", A National Conference on "Urban Infrastructure Development – Issues & Challenges (NCUID-08)", Organised by the department of Civil Engineering, MVS Engineering College, Nadargul, Hyderabad during 18-19 December, 2008
3. V.Venkat Ramayya, R.Prasanna kumar and G.Dhinakaran, "Performance Assessment of an Urban Arterial through Quantification of Speed variations", a National Conference on Recent Trends in Infra Structure Development, RETID-07, Organized by PSG College of Engineering & Technology, Coimbatore, 24-25 January, 2007.

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**Patents:**

**Patent Title:** Measurement of viscosity of bituminous binders in rotational mode through indirect measurement of torque.

**File No:** 4414/CHE/2015

**Publication details:** India Patent Journal, pp. 5588, March, 2017

[https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1\\_446\\_1/Part1.pdf](https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_446_1/Part1.pdf)

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**Research & Consultancy:**

Carried out a research Project as Co-Investigator for All India Council for Technical Education (AICTE) & Jawaharlal Nehru Technological University, Hyderabad sponsored research Project (sanction order No. JNTUH/TEQIP-III/CRS/2019/Civil/04) under Comprehensive Research Scheme (CRS), TEQIP – III of worth Rs 2,99,100.

**Events Organized:**

Conferences:

National Conference on “Urban Infrastructure Development – Issues & Challenges (NCUID-08)” during 18-19 December, 2008 As Co-Convener

FDPs/STTPs:

One week online Faculty Development Programme on “Research Advances in Civil Engineering” held during 3-7 August, 2020, Organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad.

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Webinar on Advances in Remote Sensing as Coordinator on 9th June, 2020
2. Webinar on Advances in GIS as Coordinator on 10th June, 2020
3. National Workshop on “Recent Advances in Pavement Engineering (RAPAVE-2010)” during 26-27 March, 2010 - As Organizing Secretary

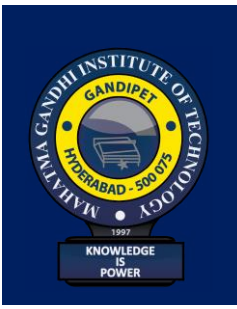
**Events Attended:**

FDPs/STTPs:

1. One week online Faculty Development Programme on “Research Advances in Civil Engineering” held during 3-7 August, 2020, Organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad.
2. A two week faculty development program by CED, MGIT during 4-16 May, 2015
3. A two week staff induction program by SASTRA University on Pedagogy and Communication Skills during 17-28 March, 2003

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Webinar on Constructional Challenges of large diameter piles in India & Bangladesh as Coordinator, 23rd July, 2020
2. Webinar on Deep Excavations in Urban Environment – Challenges & Solutions as Coordinator 22nd July, 2020
3. Webinar on Advances in GIS as Coordinator on 10th June, 2020
4. Webinar on Advances in Remote Sensing as Coordinator on 9th June, 2020



5. GIS Training Programme organized by ESRI, 22-24 May 2018
6. A one week course on Research Methodology by JNTU Anantapur during 13-18 August, 2012
7. A National Seminar on “Environmental Management” organised by School of Civil Engineering, SASTRA University, Thanjavur during 26-28 Feb, 2003.

#### **Online Certifications:**

1. NPTEL Course on Geotechnical Engineering by IIT Kharagpur
2. NPTEL Course on Data Science for Engineers by IITM
3. NPTEL Course on Python for Data Science by IITM
4. Certification on Data Science by IBM
5. Certification in Python Programming by Grey Atom

#### **Any Other Contribution:**

Developed an interactive tool using C# for analysis of JNTUH examination results. The software is capable of generating subject-wise, student-wise results and graphs for subject-wise performance of students.

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