

# CURRICULUM VITAE

## Dr. VEMU VENKATA PRAVEEN KUMAR

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## EDUCATION

- **Doctor of Philosophy (Ph.D.)** in Civil Engineering from National Institute of Technology Warangal, India 2014-2019
- **Master of Technology (M.Tech.)** in Engineering Structures from National Institute of Technology, Warangal, India 2012-2014
- **Bachelor of Technology (B.Tech.)** in Civil Engineering from GITAM University, Visakhapatnam, India 2008-2012

## PROFESSIONAL EXPERIENCE

- Head of the Department, Department of Civil Engineering at Geethanjali College of Engineering and Technology, Hyderabad from 28/12/2023 to till date.
- Associate Professor in the Department of Civil Engineering at Geethanjali College of Engineering and Technology, Hyderabad, Telangana from 11/08/2021 to till date.
- Assistant Professor in the department of Civil Engineering at Gudlavalleru Engineering College, Gudlavalleru, Andhra Pradesh from 28/12/2018 to 07/08/2021.

## PUBLICATIONS: INTERNATIONAL JOURNALS

- 1) **V.V. Praveen Kumar**, Subhashish Dey, Ganugula Taraka Naga Veerendra, Akula Venkata Phani Manoj, Siva Shanmukha Anjaneya Babu Padavala, “A systematic analysis of binary blend cement concrete infused with lime sludge and fly ash”, Chemistry of Inorganic Materials Vol. 4, 2024, 100065, 1-13 (Elsevier Journal). DOI: <https://doi.org/10.1016/j.cinorg.2024.100065>
- 2) S. Sai Charan, Subhashish Dey, **V. V. Praveen Kumar**, T. Sireesha, “Performance characteristics of sugarcane bagasse ash and quarry dust in concrete”, Architecture, Structures and Construction Vol. 3, 2023, 347-372 (Springer Journal). DOI: <https://doi.org/10.1007/s44150-022-00072-7>

- 3) **V.V. Praveen Kumar** and S. Dey, “Study on strength and durability characteristics of nano-silica based blended concrete”, Hybrid Advances Vol.2, 2023, 100011, 1-15. (Elsevier Scopus Journal). DOI: <https://doi.org/10.1016/j.hybadv.2022.100011>
- 4) **V.V. Praveen Kumar** and E.V Prasad, “A study on validation of moment-curvature relationship of lime sludge-based blended cement concrete on numerical modeling (ATENA)”, Structures, Vol.45, 2022 1729-1737 (Elsevier SCI Journal) DOI: <https://doi.org/10.1016/j.istruc.2022.10.013>
- 5) S. Dey, **V.V. Praveen Kumar** and A.V. Phani Manoj, “An experimental study on strength and durability characteristics of self-curing self-compacting concrete”, Structural Concrete Vol. 23(5), 2022, 3169-3198. (Wiley SCI Journal, Impact Factor 3.134) DOI: <https://doi.org/10.1002/suco.202100446>
- 6) S. Dey, A. Anurag and **V.V. Praveen Kumar**, “An experimental study on strength and durability characteristics of concrete with partial replacement of fine aggregate by ferrochrome slag”, Architecture, Structures and Construction Vol. 2, 2022, 335-347. (Springer Journal) DOI: <https://doi.org/10.1007/s44150-022-00072-7>
- 7) S. Dey, **V.V. Praveen Kumar**, K.R. Goud and S.K.J. Basha, “State of art review on self-compacting concrete using mineral admixtures”, Journal of Building Pathology and Rehabilitation Vol 6(18), 2021, 1-23. (Springer Scopus Journal) DOI: <https://doi.org/10.1007/s41024-021-00110-9>
- 8) **V.V. Praveen Kumar**, N. Prasad and S. Dey, “Influence of metakaolin on strength and durability characteristics of ground granulated blast furnace slag based geopolymer concrete”, Structural Concrete Vol 21(3), 2019, 1040-1050. (Wiley SCI Journal) DOI: <https://doi.org/10.1002/suco.201900415>
- 9) **V.V. Praveen Kumar** and D. Ravi Prasad, “Influence of supplementary cementitious materials on strength and durability characteristics of concrete.” Advances in concrete construction Vol. 7(2), 2019, 75-85. (Techno-Press SCI Journal) DOI: <https://doi.org/10.12989/acc.2019.7.2.075>
- 10) **V.V. Praveen Kumar** and D. Ravi Prasad, “Study on strength and durability characteristics of lime sludge based blended cement concrete.” Journal of building pathology and rehabilitation, Vol 4(2), 2018, 1-13 (Springer Scopus Journal) DOI: <https://doi.org/10.1007/s41024-018-0041-5>

- 11) **V.V. Praveen Kumar** and D. Ravi Prasad, “Investigation on moment - curvature relationship of quaternary blended reinforced cement concrete.” Cement wapno beton, Vol. 23(5), 2018, 347-357. (SCI Journal)
- 12) **V.V. Praveen Kumar** and D. Ravi Prasad, “A study on strength and durability by mineral additives optimization in conventional low, medium and high grades concrete” Cement wapno beton, Vol. 22(4) page. 299-310. (SCI Journal)

### **BOOK PUBLICATIONS**

- 1) S. Dey and **V.V. Praveen Kumar**, “An experimental study on strength and durability characteristics of self-curing self-compacting concrete” Lambert Academic Publishing, ISBN No. 978-620-2-07936-5, Published on 22<sup>nd</sup> March 2022.
- 2) **V.V. Praveen Kumar** and S. Dey, “Effect on Strength and Durability Properties of Self Compaction Concrete with Fly Ash and Silica Fume as Mineral Admixture” Lambert Academic Publishing ISBN No. 978-6207469796, Published on 6<sup>th</sup> March 2024.

### **CONFERENCES ATTENDED**

- 1) V.V. Praveen Kumar and D. Ravi Prasad “Investigation on strength and durability characteristics of ternary blended cement concrete” – International Conference on composite materials and structures (**ICCMS- 2017**) - organized by IIT- Hyderabad.
- 2) V.V. Praveen Kumar and D. Ravi Prasad “An experimental study on utilization of lime sludge by partial replacement of cement in Concrete” – Trends and recent advances in civil engineering (**TRACE – 2016**) – organized by Amity University.
- 3) V.V. Praveen Kumar and D. Ravi Prasad “A study on strength characteristics of concrete by replacing cement with lime sludge” - Innovations in Structural Engineering (**IC-ISE-2015**) – organized by Osmania University.

### **FACULTY DEVELOPMENT PROGRAMS**

- 1) Participated in GIAN course on Experimental Modal Analysis: Applications in Civil and Mechanical Engineering Systems organized by NIT Warangal in collaboration with Ministry of Education, Government of India from 31<sup>st</sup> Jan 2022 to 4<sup>th</sup> Feb 2022.
- 2) Participated in Faculty Development Program on Innovate teaching methods on recent advances in concrete and sustainable technologies (ReCAST) at NIT Warangal, held 1<sup>st</sup> July to 5<sup>th</sup> July, 2020.

- 3) Participated in Faculty Development Program on "Effects of Soil structure interaction on structures against Static and Dynamic Loads" organized by Gudlavalleru Engineering College, held during 3<sup>rd</sup> – 8<sup>th</sup> February 2020.
- 4) Participated in Faculty Development Program on "ETABS - SOFTWARE" organized by Andhra Pradesh State Skill Development Corporation (APSSDC) at Andhra Loyola Institute of Engineering and Technology Vijayawada, held during 4<sup>th</sup> – 9<sup>th</sup> November 2019.
- 5) Participated in Faculty Development Program on Advances in Structural Health Monitoring of Civil Infrastructure (ASHMCI) at NIT Warangal, held during 22<sup>nd</sup> Mar - 24<sup>th</sup> Mar, 2017.
- 6) Participated in Faculty Development Program on Advances in Pre-stressed Concrete Design (APCD) at NIT Warangal, held during 3<sup>rd</sup> March – 5<sup>th</sup> March, 2017.

### **RESEARCH INTERESTS**

High Performance Concrete, Low Cost/Alternate building Materials, Composite Materials, Recycled Aggregate Concrete, Sustainable Materials, and Special concretes such as fiber reinforced concrete, Geo-polymer concrete, Self-compacting concrete.

### **PERSONAL DETAILS**

Father's name: Mr. V. Visweswara Rao

Mother's name: Smt. V. Lakshmi

Spouse's name: Smt. G. Sai Jeevana Madhuri

Date of birth: 22<sup>nd</sup> December 1990

Nationality: Indian

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