

Dr Akula Venkata Phani Manoj

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Personal Statement

An experienced Assistant Professor with a robust academic background and a deep passion for structural engineering. Dedicated to fostering a dynamic learning environment and contributing to the advancement of the field through innovative teaching and research. Eager to leverage my extensive knowledge and skills in a challenging and collaborative academic setting to support the growth and success of the institution.

Career Objective

To seek a professional role that allows me to utilize and enhance my skills in a dynamic and innovative setting, contributing significantly towards the organizational goals and personal growth.

Key Skills

- Strong problem-solving and analytical abilities
- Effective team collaboration and leadership
- Positive attitude and resilience
- Excellent communication skills
- Proficient in structural engineering software and computer applications

Experience

Assistant Professor

Seshadri Rao Gudlavalleru Engineering College

July 3, 2017 - Present

- Successfully taught and mentored students in civil and structural engineering courses.
- Guided students in various projects and research activities.
- Participated in and organized numerous workshops and faculty development programs.

Graduate Engineer Trainee

Megha Engineering Infrastructures Ltd.

- Gained hands-on experience in large-scale infrastructure projects.
- Developed practical skills in project management and structural analysis.

Academic Qualifications

- **PhD** – Civil and Structural Engineering, Annamalai University.
- **M.Tech (Structural Engineering)** - SRM University (2015-2017), CGPA: 8.71
- **B.E** - SRKR Engineering College (2010-2014), CGPA: 7.81
- **Intermediate** - Sasi Junior College (2008-2010), Percentage: 92.8%
- **SSC** - Sasi E.M High School (2008), Percentage: 86.6%

Projects

- **Influence Of Ternary Blended Concrete On Mechanical And Durability Properties**
(PhD)
- **Study and Design of Bhimavaram Municipal Water Supply Scheme** (B.E)
- **Flexural Behaviour of Light-Gauge Cold-formed ‘Z’ and ‘HAT’ Sections with and without Lips** (Post-Graduation)

Internship

- **Blue Star Constructions, Palakollu, Andhra Pradesh**

Project: Design of five-storey building

Duration: June 1, 2016 - June 25, 2016

Computer Skills

- **General:** MS Office (Word, Excel, PowerPoint)
- **Operating Systems:** Windows 2000/XP/2007/2008, 7, 8.1, 10
- **Languages:** C, Java
- **Software:** AutoCAD Civil, STAAD PRO, Ansys

Workshops and FDPs

- Attended a 5 Day FDP on Building Resilient Infrastructure
- Attended a Six Days Workshop on Emerging Trends & Applications In Civil Engineering
- Attended one week Faculty Development Programme on “Finite Element Analysis”.
- Attended one week Faculty Development Programme on “Advancements in Construction Materials”.
- Attended one week Faculty Development Programme on “Design of structures.A practical approach”.
- Attended five day Online Faculty Development Programme on “Emerging Technology in Robotics”.
- Attended one-week awareness program on “NAAC Awareness Programme for Faculty”.
- Attended two-day webinar “Effect of COVID on Urban Micro Environment”.
- Attended One-week Faculty Development programme “Civil Engineering Research. A step forward”.
- Attended One-week Faculty Development programme “Effects of Soil Structure on Structures against Static and Dynamic loads”.
- Attended One-week Online Faculty Development Programme “Recent advancements in Geotechnical and Transportation Engineering”.

- Attended One-week Online Faculty Development Programme “Innovations in Civil Engineering”.
- Attended One-week Online Faculty Development Programme “Recent Advancements in special Concrete”.
- Attended Five-day Online Faculty Development Programme on “Innovative Teaching Methods on Recent advances in Concrete and Sustainable Technologies (ReCast)”.
- Attended One Week Online Faculty Development Programme on “Applications of Artificial Intelligence & Machine Learning in Civil Engineering”.

Publications

1. Akula Venkata Phani Manoj, “Enhanced Concrete Performance and Sustainability with Lime Sludge and Wollastonite powder: A Comprehensive Experimental Study” Iranian Journal of Science and Technology, Transactions of Civil Engineering-2025 (**Scopus indexed**)
2. Akula Venkata Phani Manoj, “Investigations of solid waste biosorbents for eliminations of total hardness from water: An experimental study of conversion of waste into valuable products” Advances in Biomarker Sciences and Technology-Volume 7, 2025, Pages 138-171 (**Elsevier**)
3. Akula Venkata Phani Manoj, “Synthesize and applications of green custard apples leaves biosorbents for adsorptions of sulphates and fluorides from water” Environmental Surfaces and Interfaces-Volume 3, December 2025, Pages 1-23 (**Science Direct**)
4. Akula Venkata Phani Manoj, “Performance measurement the additions of sawdust in the brick with the expansive soil” Int J Syst Assur Eng Manag (2025). (**ESCI &Scopus indexed**)
5. Akula Venkata Phani Manoj, “Eliminations of sulphur and fluoride from contaminated water by the applications of various types of biosorbents materials” Water-Energy Nexus Volume 8, December 2025, Pages 73-92 (**Scopus indexed**)
6. Akula Venkata Phani Manoj, “Building information modeling – simulation and analysis of a University Edifice and its environs – A sustainable design approach (2025)”, Green Technologies and Sustainability, 3 (2), art. no. 100150. (**Scopus indexed**)

7. Akula Venkata Phani Manoj, "Synthesis of various types of green biosorbents materials for removals of sulphates from contaminated water for better aquatic environments", Waste Management Bulletin, Volume 2, Issue 4, December 2024, Pages 76-94. **(Scopus indexed)**
8. Akula Venkata Phani Manoj, "Development and applications of different types of green biosorbents for eliminations of hardness from water: A review on treatment, kinetics mechanism and future scope", Advances in Biomarker Sciences and Technology, Volume 4 6 (2024) 265–299. **(Science Direct)**
9. Akula Venkata Phani Manoj, "A systematic analysis of binary blend cement concrete infused with lime sludge and fly ash", Chemistry of Inorganic Materials, Volume 4, 2024, 100065, ISSN 2949-7469. **(Elsevier)**
10. Akula Venkata Phani Manoj, "An experimental study on the parthenium biosorbents for removals of chlorides and hardness from contaminated water", Energy Nexus, Volume 15, 2024, 100309, ISSN 2772-4271. **(ESCI & Scopus indexed)**
11. Akula Venkata Phani Manoj, "Flexural behavior of cold formed steel with and without lips: a theoretical, experimental and numerical study of "Hat" and "Z" sections". Innov. Infrastruct. Solut. 9, 221 (2024). **(ESCI & Scopus indexed)**
12. Akula Venkata Phani Manoj, "Experimental study on concrete by partial replacement of cement with fly ash and coarse aggregates with palm kernel shells (Pks) and with addition of hybrid fibers," Chemistry of Inorganic Materials, vol. 2, p. 100033, Apr. 2024. **(Science Direct)**
13. Akula Venkata Phani Manoj, "Material estimation and energy analysis for a domestic building using Revit architecture and insight: a sustainable approach". Asian Journal of Civil Engineering, Feb (2024). **(Scopus indexed)**
14. Akula Venkata Phani Manoj, Utilization of Various Types of Biosorbents for Removal of Nitrites from Water. Biomedical Materials & Devices, Feb (2024). **(Scopus indexed)**
15. Akula Venkata Phani Manoj, "Removal of chlorides and hardness from contaminated water by using various biosorbents: A comprehensive review", Water-Energy Nexus, Volume 7, 2024, Pages 39-76, ISSN 2588-9125. **(Scopus indexed)**

16. Akula Venkata Phani Manoj “A Critical Examination on Service Life Prediction of RC Structures with Respect to Chloride-Ion Penetration”, Journal of Bio- and Tribo-Corrosion, 10, 5 (November-2024). **(Scopus indexed)**
17. Akula Venkata Phani Manoj “Optimizing the bituminous pavement constructions with waste plastic materials improved the road constructions performance and their future applications”, AI in Civil Engineering, 16, 3 (September-2024). **(Scopus indexed)**
18. Akula Venkata Phani Manoj, “Invasive lignocellulose-based plants bio-sorbents for the elimination of nitrites of emerging concern from water”, Environmental Functional Materials, Volume 2, Issue 3, 2023, Pages 255-274, ISSN 2773-0581. **(Science Direct)**
19. Akula Venkata Phani Manoj “Evaluate the use of flower waste biosorbents for treatment of contaminated water”, Water-Energy Nexus, Volume 6, December 2023, Pages 187-230. **(Scopus indexed)**
20. Akula Venkata Phani Manoj “Recycling of e-waste materials for controlling the environmental and human health degradation in India”, Green Analytical Chemistry, Volume 7, December 2023, 100085. **(ESCI & Scopus indexed)**
21. Akula Venkata Phani Manoj, “Performance evaluation of ternary blended cement concrete partially replacement of natural sand with granite quarry dust,” Hybrid Advances, vol. 4, p. 100082, Dec. 2023. **(Scopus indexed)**
22. Akula Venkata Phani Manoj “Effect Of Wollastonite And Lime Sludge On Strength, Durability And Asr Of Ternary Blended Cement Concrete”, Revista Romana de Materiale; Bucharest Vol. 53, Iss. 2, (2023): 130-139. **(SCI & Scopus indexed)**
23. Akula Venkata Phani Manoj “Investigating the performance of ternary cementitious systems incorporating wollastonite powder and lime sludge in concrete”, Materials Research Express, 10 (5), art. no. 055602, May 2023. **(SCI & Scopus indexed)**
24. Akula Venkata Phani Manoj “Performances of Plant Leaf Biosorbents for Biosorption of Phosphorous from Synthetic Water,” Cleaner Materials, p. 100191, May 2023. **(ESCI & Scopus indexed)**
25. Akula Venkata Phani Manoj “Degradation of Plastics Waste and Its Effects on Biological Ecosystems: A Scientific Analysis and Comprehensive Review,” Biomedical Materials & Devices, May 2023. **(Scopus indexed)**

26. Akula Venkata Phani Manoj “Forecasting models for surface water quality using predictive analytics,” Environment, Development and Sustainability, May 2023. (**SCI & Scopus indexed**)
27. Akula Venkata Phani Manoj “Life cycle assessment for a suburban building located within the vicinity using Revit Architecture”, Journal of Building Pathology and Rehabilitation, 2022; 7(1): 56. (**Scopus indexed**)
28. Akula Venkata Phani Manoj “Synthesis and characterization of mango leaves biosorbents for removal of iron and phosphorous from contaminated water”, Applied Surface Science Advances Volume 11, October 2022, 100292 ISSN 2666-5239, (**ESCI & Scopus indexed**)
29. Akula Venkata Phani Manoj “An experimental study on strength and durability characteristics of self-curing self-compacting concrete”, Structural Concrete. 2022;1–30 a (**SCI & Scopus indexed**)
30. Akula Venkata Phani Manoj “Study on mechanical and durability properties of ternary blended concrete”, Materials Today: Proceedings Volume 56, Part 1, 2022, Pages 514-519. (**Scopus indexed**)
31. Akula Venkata Phani Manoj “Experimental Investigation On Concrete By Partial Replacement Of Cement With Fly Ash And Fine aggregate With Glass Powder”, The International journal of analytical and experimental modal analysis, Volume XIII, Issue VII, July/2021. (**UGC Approved**).
32. Akula Venkata Phani Manoj “A Study on Strength and Durability Characteristics of Concrete with Partial Replacement of Cement with Alccofine and Fine Aggregate with Manufactured Sand”, Journal of Interdisciplinary Cycle Research, Volume XIII, Issue VII, July/2021. (**UGC Approved**).
33. Akula Venkata Phani Manoj “Strength and Durability Properties of Concrete with Partially Replaced Cement with Egg Shell Powder and Fine Aggregate with Quarry Dust”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019 (**Scopus indexed**)
34. Akula Venkata Phani Manoj “Evaluation of Drainage and Surface Water Resources of Brahmayyalingam Lake in Agiripalli Mandal, Krishna District, A.P., India Using Geo-

Spatial Technologies”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7, Issue-6S4, April 2019 (**Scopus indexed**)

35. Akula Venkata Phani Manoj “Analysis & Identification of Time and Cost Overruns in Built Environment, India” International Journal for Research in Engineering Application & Management.
36. Akula Venkata Phani Manoj, S.Senthil Selvan "Flexural Behaviour of Light Gauge Cold-formed Steel ‘Z’ and ‘HAT’ Sections with And Without Lips”, International Journal of Civil Engineering and Technology (IJCIET) Volume 8, Issue 3, pp. 662 to 669, April 2017. (**Scopus indexed**)

Scopus Indexed Journals: 16

ESCI & Scopus Indexed Journals: 6

SCI & Scopus indexed: 4

Total Journals in SCOPUS, ESCI & Scopus Indexed, SCI & Scopus indexed: 26

Total Number of Journals: 36

Patent Publication

- **Fiber Glass Based System for Reinforcing Concrete Panels**

Publication Number: 37/2022

Publication Date: September 16, 2022

NPTEL Courses

- Design of Reinforced Concrete Structures – Scored 90% (Elite + Gold Top 5%)
(Jul–Oct 2018, IIT Kharagpur, 12-week course)
- Strength of Materials – Scored 78% (Elite Certified + Silver)
(Jul–Oct 2019, IIT Kharagpur, 12-week course)

- Concrete Technology – Completed with a consolidated score of 51% (Jan–Apr 2023, IIT Madras, 12-week course)
- Natural Hazards - Part 1 – Scored 66% (Elite Certified)
(Jan–Mar 2019, IIT Kanpur, 8-week course, equivalent to 1-week FDP)

Scopus-ID : 57606422300

Web of Science Researcher ID : AFE-6080-2022

Google Scholar :

<https://scholar.google.com/citations?hl=en&user=bC8TBa8AAAAJ>

Vidwan-ID : 198367

Orchid ID : <https://orcid.org/0000-0002-6426-6479>

Interests

- Playing cricket
- Playing badminton

Referees

- **Dr. P Kodanda Rama Rao**
Vice Principal & Professor
Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru
- **Dr. G T N Veerendra**
Assistant Professor
Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru