AKULA VENKATA PHANI MANOJ

Department: Civil Engineering
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RESIDENTIAL ADDRESS: Dno 1-167, Moripodu, Sakinetipalli mandal, East Godavari district.

ACADEMIC QUALIFICATIONS:

S.NO	COURSE	INSTITUTION	YEAR OF STUDY	PERCENTAGE/CGPA
1	PhD	ANNAMALAI UNIVERSITY	Submitted	-
2	M.Tech (Structural engineering)	SRM UNIVERSITY	2015-2017	8.71
3	B.E	SRKR ENGINEERING COLLEGE	2010-2014	7.81
4	INTERMEDIATE	SASI JUNIOR COLLEGE	2008-2010	92.8
5	SSC	SASI E.M HIGH SCHOOL	2008	86.6

PROFESSIONAL EXPERIENCE:

- Worked as Graduate engineer trainee in MEGHA ENGINEERING INFRASTRUCTURES LTD from December 2014 to 15th August 2015.

DESIGNATION	INSTITUTION	PERIOD
Assistant professor	**Gudlavalleru Engineering College**	**From July, 2017**

PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
-	3	10

SPECIALIZATION: STRUCTURAL ENGINEERING

RESEARCH PAPERS / BOOKS:

1. 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)**
2. 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)**
3. 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)**
4. Akula Venkata Phani Manoj, "An experimental study on the parthenium biosorbents for removals of chlorides and hardness from contaminated water", Energy Nexus, Volume15, 2024, 100309, ISSN 2772-4271. **(Scopus indexed)**
5. 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). **(Scopus indexed)**
6. 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)**

7. 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)**
8. Akula Venkata Phani Manoj, Utilization of Various Types of Biosorbents for Removal of Nitrites from Water. Biomedical Materials & Devices, Feb (2024). **(Springer link)**
9. 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)**
10. 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)**
11. 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)**
12. 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)**
13. Akula Venkata Phani Manoj “Recycling of e-waste materials for controlling the environmental and human heath degradation in India”, Green Analytical Chemistry, Volume 7, December 2023, 100085. **(Science Direct)**
14. 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. **(Science Direct)**
15. 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)**
16. 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)**

17. Akula Venkata Phani Manoj “Performances of Plant Leaf Biosorbents for Biosorption of Phosphorous from Synthetic Water,” Cleaner Materials, p. 100191, May 2023. (**Scopus indexed)**
18. 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. **(Springer)**
19. Akula Venkata Phani Manoj “Forecasting models for surface water quality using predictive analytics,” Environment, Development and Sustainability, May 2023. (**SCI & Scopus indexed)**
20. 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)**
21. 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, (**Scopus indexed)**
22. 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)**
23. 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. (**SCI & Scopus indexed)**
24. 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).**
25. 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).**

26. 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)**
27. 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)**
28. Akula Venkata Phani Manoj "Analysis & Identification of Time and Cost Overruns in Built Environment, India" International Journal for Research in Engineering Application & Management.
29. 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)**

JOURNALS	
INTERNATIONAL	**NATIONAL**
29	**-**

PATENT PUBLICATIONS:

1. **Patent Title:** Fiber Glass Based system for Reinforcing Concrete Panels.
   Publication Number: 37/2022.
   Publication Date: 16/09/2022

LIST OF WORKSHOPS ORGANIZED AND ATTENDED:

- Attended one Week Faculty Development Programme On "Applications of Artificial Intelligence and Machine Learning 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 Microenvironment”.
- 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”.