



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

DEPARTMENT OF CIVIL ENGINEERING



(UGC Autonomous Institution)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)
NBA Accredited - B. Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

Details of research publications of faculty members during the academic year 2024-25

Faculty Name	CoAuthor	Role of Author	Paper/Book Title	Publisher details with year and page numbers	Indexing	Impact Factor/ Cite Score
Dr. Surya Dev Singh	Surya Dev Singh, Rosalin Sahoo	First Author	Comprehensive Analysis of Static, Buckling, and Free Vibration Behavior of Carbon Nanotube Reinforced Composite Plates on Pasternak's Elastic Foundation	Journal of Vibration Engineering & Technologies, 2024	SCI and Scopus	2.1
Dr. Nakkeeran G	Bhukya Govardhan Naik, G. Nakkeeran, Dipankar Roy & George Uwadiegwu Alaneme	Second and Corresponding Author	Investigating the potential of waste glass in paver block production using RSM	Scientific Reports, 2024	SCIE and Scopus	3.2
Dr. Surya Dev Singh	Surya Dev Singh, Aniket Gopa Chanda, Quaiyum M. Ansari	First Author	Bending analysis of CNT-reinforced sandwich plates using non-polynomial zigzag theory based on secant function	Archive of Applied Mechanics, 2024	SCIE and Scopus	1.1
Dr. Sonu Kumar Gupta	Ashish Sonia, Pankaj Kumar Das, Sonu Kumar Gupta, Ankuran Saha, Saravanan Rajendran, Hesam Kamyab,	Co-Author	An overview of recent trends and future prospects of sustainable natural fiber-reinforced polymeric composites for tribological applications	Industrial Crops and Products, 2024	SCIE and scopus	5.6



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	Mohammad Yusuf					
Dr.Nakkeeran G	Govardhan Naik B, Nakkeeran G, Dipankar Roy	Second and Corresponding Author	Recycling glass waste into concrete aggregates: enhancing mechanical properties and sustainability	Asian Journals of Civil Engineering, 2024	Scopus	NA/1.90
Dr.Nakkeeran G	G. Uday Kiran, G. Nakkeeran, Dipankar Roy & George Uwadiogwu Alaneme	Second and Corresponding Author	Optimization and prediction of paver block properties with ceramic waste as fine aggregate using response surface methodology	Scientific Reports, 2024	SCIE and Scopus	3.2
Dr.Nakkeeran G	G. Nakkeeran, L. Krishnaraj, Pshtiwan Shakor, George Uwadiogwu Alaneme & Obeten Nicholas Out	First and Corresponding Author	Mechanical properties optimization and cost analysis of agricultural waste as an alternative in brick production	Scientific Reports, 2025	SCIE and Scopus	3.2
Dr.Nakkeeran G	M. Indumathi, G Nakkeeran, Dipankar Roy, Sonu Kumar Gupta, George Uwadiogwu Alaneme	Second and Corresponding Author	Innovative approaches to sustainable construction: a detailed study of rice husk ash as an eco-friendly substitute in cement production	Discover Applied Sciences, 2024	ESCI and Scopus	NA
Dr. Pradyut Anand	Pradyut Anand, Anand Kumar Sinha and Puja Rajhans	First Author	Impact of zeolite and various doses of aluminium sulfate powder on the properties of aerated concrete blocks	Engineering Research Express, 2024	ESCI and Scopus	NA



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Dr.Nakkeeran G	P. Venugopal Reddy, G. Nakkeeran , Dipankar Ro y, George Uwad iegwu Alane me	Second and Correspondi ng Author	Evaluating the use of recycled fine aggregates in 3D printing: a systematic review	Discover Applied Sciences, 2024	ESCI and Scopus	NA
Dr.Nakkeeran G	Bhukya Gova rdhan Naik, Nakkeeran G anasen, Dipankar Ro y, Golla Uday k iran	Second and Correspondi ng Author	Recycling glass waste in mortar: a sustainable approach to enhancing strength and density	Asian Journals of Civil Engineeri ng,2024	Scopus	NA/1.90
Dr.Nakkeeran G	G. Uday Kiran, G. Nakkeeran, Dipankar Roy, Sumant Nivarutti Shinde & George Uwadiegwu Alaneme	Second and Correspondi ng Author	Enhancing the mechanical properties' performances coconut fiber and CDW composite in paver block: multiple AI techniques with a Performance analysis	Scientific Reports, 2024	SCIE and Scopus	3.2
Dr.Nakkeeran G	G. Uday kira n, G. Nakkeeran , Dipankar Ro y	Second and Correspondi ng Author	Thermal distribution of paver block with machine learning optimized design with alternative eco-friendly materials	Innovativ e Infrastruct ure Solutions, 2025	ESCI and Scopus	2.1
Dr. Pradyut Anand	Pradyut Anand, Surya Dev Singh, Priya m Nath Bhowmik an d Denise- Penelope N Kontoni	First Author	Optimizing concrete mix proportions with zeolite, GGBS, and CDW: a data- driven approach integrating experimental analysis and	Engineeri ng Research Express, 2025	ESCI and Scopus	NA



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			machine learning models			
Dr.Nakkeeran G	Anusha yarra , G. Nakkeeran , Dipankar Ro y, George Uwad iegwu Alane me	Second and Correspondi ng Author	Evaluation of SCBA-replaced cement for carbon credits and reduction in CO2 emissions	Discover Applied Sciences, 2025	ESCI and Scopus	NA
Dr.Nakkeeran G	Sumant Nivarutti Shinde, Sharon Christa, Rakesh Kumar Grover, Nadeem Pasha, D Harinder, G Nakkeeran, George Uwadiegwu Alaneme	Co-Author	Optimization of waste plastic fiber concrete with recycled coarse aggregate using RSM and ANN	Scientific Reports, 2025	SCIE and Scopus	3.2
Dr.Nakkeeran G	Bhukya Govardhan Naik, G Nakkeeran, Dipankar Roy, Golla Uday Kiran	Second and Correspondi ng Author	Machine learning- based destructive and non-destructive testing of paver block using fly ash and polyvinyl chloride into sustainable pedestrians	Innovativ e Infrastruct ure Solutions, 2025	ESCI and Scopus	2.1
Dr.Dipankar Roy	Brijesh Kuma r ,Richa Kuma ri Dipankar Ro y, Love Kumar, Sanoj Kumar,	Co-Author	Spatiotemporal Inter-comparison of WMO's Gauge Adjusted Satellite Precipitation Product Over India	Journal of the Indian Society of Remote Sensing,2 025	SCIE and Scopus	2.2



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	Venkataraman Lakshmi					
Dr. Priyam Nath Bhowmik	Priyam Nath Bhowmik, Pranjit Barman, Mokaddes Ali Ahmed, Krishna Chandras	First Author	Remarkable Reduction of Carbon Dioxide Emission from Crumb Rubber Modified Bitumen by Introducing Hydroxyapatite Encapsulated Magnesium Ferrite (HAP/MgFe ₂ O ₄) Nanocomposite in Varying Proportions	International Journal of Pavement Research and Technology	ESCI and Scopus	NA