

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

Name of the Department: Mathematics

Duration: 01/07/2025 to 30/06/2026 for the A.Y 2025-26

Publications

(a) Journals (International)

S.No.	Name of the Faculty	Month and Year of Publication	Title of the Paper	Name of the Journal	UGC/Scopus/SI/SCIE / Others	Total number of Authors	First author / Supervisor/ Co-author	ISBN / ISSN number	Citation Index	h-index
1	Dr. N.Vasudha	Dec-2025	Churn Prediction Analysis in the Telecom Industry Using PCA and Bagging Techniques	Mathematical Modelling of Engineering Problems	Scopus	8	Co-author (3rd)	ISSN: 2369-0739 (print); 2369-0747 (online)	CiteScore 2025: 2.5	24
2	Dr. Tenneti Ramprasad	May-2026	Marder Type Universe with Barrow Holographic Dark Energy	TELEMATIQUE	SCIE	3	Co-author (5th)	ISSN:1856-4194		
		May-2026	Modeling Generalized Ghost Pilgrim Dark Energy within Self-Creation Gravitational Theory	TELEMATIQUE	SCIE	3	Co-author (2nd)	ISSN:1856-4194		
3	Dr. B. S. N. Murthy	Aug-2025	Analysis of Caputo-Fabrizio Fractional Derivative on Tumor-Immune Mathematical Model with Optimal Control	Fractals	SCIE	4	Co-author (3rd)	ISSN: 1793-6543(print); 0218-348X (online)	CiteScore 2025: 2.5	70
		Jan-2026	Exploring the dynamics of rabies epidemic model using Caputo-Fabrizio derivative under treatment and vaccination	Computer Methods in Biomechanics and Biomedical Engineering	SCIE	6	Co-author (2nd)	ISSN: 1025-5842(print); 1476-8259 (online)	CiteScore 2025: 2.8	71
		Jan-2026	Modeling tuberculosis transmission with kernel functions: effects of vaccination and Time delay	European Physical Journal Plus	SCIE	6	Co-author (3rd)	ISSN: 2190-5444(print); 1476-8259 (online)	CiteScore 2025: 5	94
		Feb-2026	Prey and Predator Inhabitants: Analysis and Direction of Hopf bifurcation for Optimal Control of Disease Transmission in Prey-Predator Population with Numerical Simulation	Mathematical Methods in the Applied Sciences	SCIE	4	Co-author (2nd)	ISSN: 0170-4214(print); 1099-1476 (online)	CiteScore 2025: 4.2	93
4	Dr. R. Hari Kishore	Dec-2025	Transparent Crop Price Forecasting Framework Using Explainable AI for Multi-Factor Driver Analysis and Stakeholder Decision Support	Journal of Applied Science and Technology Trends	Scopus	6	Co-author (4th)	ISSN: 2708-0757	2.6	17
		Feb, 2026	Enhancing data security using multivariate polynomial based McEliece encryption with advanced hash-based message authentication	Journal of Computer Virology and Hacking Techniques (2026)	Scopus	6	Co-author (4th)	ISSN :2263-8733	4.8-6.4	48
		Feb,2026	Comprehensive Review of Machine Learning Models for Breast Cancer Diagnosis (2018–2023)	Big Data and Computing Visions	Scopus	6	Co-author (4th)	ISSN: 2821-014X	2.9	9

		May – June (2026)	Augmenting End-to-End Data Security Using Optimized NTRU Encryption with Quantum-Safe Key Exchange	International Journal of Computer Networks and Applications (IJCNA)	Scopus	3	Co-author (3rd)	ISSN : 2395-0455	2.9	18
5	Dr. Ch.Naga Anuradha	No-2025	Secure and Adaptive Routing in Wireless Sensor Networks Using Meta-Router and TGAT TrustChain	International Information and Engineering Technology Association	Scopus	8	First-author	ISSN:2369-0739	2.5	20
6	Dr. Chaitanya Cheemalamarri	May 2026	Role of intra-specific competition and additional food on prey predator systems exhibiting Holling type-IV functional response	Franklin Open	Scopus Elsevier	3	Co author (2nd)		Cite Score 2.8	14

(c) Conference

S.No.	Name of the Faculty	Title of the paper	Name of the conference	Duration of the conference	International / National	Location where the event is organized	Professional Body Involved in Publication (IEEE / Elsevier)	Citation Index if available
1	Dr. N.Vasudha	PCA and GIS Analysis of Groundwater Quality Over Yadadri	7th International Conference on Communications and Cyber-Physical Engineering -2024	19th-20th July 2024	International	G Narayanamma Institute of Technology and Science, Hyderabad, India.	Springer	
2	Dr. B. S. N. Murthy	Surface morphology and mechanical properties of friction stir welded AA7075-T6 sheet	International Conference on Sustainable Management and Manufacturing Industry 5.0	21-22 Feb 2025	International	Malla Reddy University, Hyderabad, India.	AIP Conference Proceedings	
3	Dr. C.Naga Anuradha	Next-Gen Recruitment: An AI Powered Hiring Ecosystem using NLP	6th International Conference on Inventive Research in Computing Applications (ICIRCA-2025)	25 th-27 th June 2025	International	Coimbatore, India	IEEE	2
		Transfer Learning for Cross-Market Inference: Approaches in Emerging and Transitional Economies	4th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2025)	03-05 September 2025	International	Tirupur, India	IEEE	6

4	Dr. M.Venkateshwar Rao	Reinforcement Learning-Based Deep Q-Network Traffic Routing for IoT-Enabled Smart Networks With QoS Constraints	8th International Conference on Intelligent Sustainable Systems (ICISS-2026)	04-06, March, 2026	International	SCAD College of Engineering and Technology, Tirunelveli, India	IEEE	
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