



**LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(An Autonomous Institute, Approved by AICTE, Permanently Affiliated to JNTUGV)  
(Accredited by NAAC with “A” grade)  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Research Paper Publications**

**Details of Publication in Journal**

**Academic Year: 2024-25**

S. No.	Name of the Faculty	Title of the Paper	Details of Publication				Link to The Article	Indexed By
			Name of the Journal	Year	Page No.	ISSN No		
1.	Dr. M. Rajan Babu	Ultra-high-speed all-optical half subtractor for optical signal processing.	Photonic Network Communications	2024	51–62	1572-8188	<a href="https://doi.org/10.1007/s11107-024-01024-5">https://doi.org/10.1007/s11107-024-01024-5</a>	SCIE
2.	Dr. N. Rajasekhar, Dr. D.Naresh Kumar	Circularly Polarized Modified Minkowski Metasurface-Based Hybrid Dielectric Resonator Antenna for 5G n79 Wireless Applications	Electronics	2024	--	2079-9292	<a href="https://doi.org/10.3390/electronics13163117">https://doi.org/10.3390/electronics13163117</a>	SCIE
3.	Dr. Y. V. Koteswararao	Multi-class classification of Alzheimer’s disease using deep learning and transfer learning on 3D MRI images	Traitement du Signal	2024	1397-1404	0765-0019	<a href="https://doi.org/10.18280/ts.410328">https://doi.org/10.18280/ts.410328</a>	SCIE
4.	Dr. R. Santosh	Band gap modulation and stability analysis of hydrogenated and fluorinated penta-MAs <sub>2</sub> (M = Ni, Pd, and Pt) monolayers	Materials Science and Engineering: B	2025	--	0921-5107	<a href="https://doi.org/10.1016/j.mseb.2025.118094">https://doi.org/10.1016/j.mseb.2025.118094</a>	SCIE
5.	Dr. D.Naresh Kumar	Circularly Polarized Asymmetric Single-Point	Telecom	2025	--	2673-4001	<a href="https://doi.org/10.3390/teleco">https://doi.org/10.3390/teleco</a>	WOS



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		Probe-Fed Hybrid Dielectric Resonator Antenna for Wireless Applications.					m6010008	
6.	Dr. D.Naresh Kumar	Optimization of 5G Sub Band Antenna Design Using Machine Learning Techniques for WiFi & WiMAX Application	Indian Journal of Science and Technology	2025	160-167	0974-6846	<a href="https://doi.org/10.17485/IJST/v18i2.3681">https://doi.org/10.17485/IJST/v18i2.3681</a>	WOS
7.	Mr. S.S.Kiran	Cyber-physical systems for hybrid braking control techniques in hybrid electric vehicles	International Journal of Information Technology	2024	--	2511-2112	<a href="https://doi.org/10.1007/s41870-024-02184-3">https://doi.org/10.1007/s41870-024-02184-3</a>	Scopus
8.	Dr. R. Santosh	Substitutional effect of Ti-based CZTS alloys with the effective spin-orbit coupling interaction: Ab initio GGA+U study	Computational Materials Science	2024	--	0927-0256	<a href="https://doi.org/10.1016/j.comatsci.2024.113238">https://doi.org/10.1016/j.comatsci.2024.113238</a>	Scopus
9.	Dr. L. Alekhya	Cardiotocogram Data classification using Machine Learning Algorithms along with Swarm-Based Metaheuristic optimizations for Autonomous Fetal distress detection	Journal of Electrical Systems	2024	6098-6113	1112-5209	<a href="https://journal.esrgroups.org/jes/article/view/6570">https://journal.esrgroups.org/jes/article/view/6570</a>	Scopus
10.	Dr. L. Alekhya	Autonomous Fetal Distress Detection based on	Journal of Computational	2024	1136-1147	1521-1398	<a href="https://www.udoxuspress.c">https://www.udoxuspress.c</a>	Scopus



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		performance of Machine learning algorithms	Analysis and Applications				om/index.php/pub/article/view/1110	
11.	Dr. L. Alekhya	Autonomous Fetal Distress Detection with Cardiotocogram Classification using AutoEncoder Model Combined with Recurrent Neural Networks	Nanotechnology Perceptions	2024	222-233	1660-6795	<a href="https://nanontp.com/index.php/nano/article/view/3824#:~:text=Experimental%20results%20demonstrate%20that%20the,%20C%20Mean%20MCC%20of%20098.06%25%20C">https://nanontp.com/index.php/nano/article/view/3824#:~:text=Experimental%20results%20demonstrate%20that%20the,%20C%20Mean%20MCC%20of%20098.06%25%20C</a>	Scopus
12.	Mr. K. Gurucharan, Dr. M. RajanBabu, Mr. S.S.Kiran	Mobile Application For Early Diagnosis of Pneumonia Using Deep Learning	Industrial Engineering Journal	2024	68-76	0970-2555	<a href="https://www.researchgate.net/publication/382801857_Mobile_Application_For_Early_Diagnosis_of_Pneumonia_using_Deep_Learning">https://www.researchgate.net/publication/382801857_Mobile_Application_For_Early_Diagnosis_of_Pneumonia_using_Deep_Learning</a>	UGC Care Group-1
13.	Mr. K.Gurucharan	Design And Analysis Of Multi-Resonant Symmetrical Meander-Line Dipole	Industrial Engineering Journal	2024	77-81	0970-2555	<a href="http://www.journal-iiie-india.com/1_ju">http://www.journal-iiie-india.com/1_ju</a>	UGC Care Group-1



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		Antenna For Wireless Applications					ly_24/12.3_july.pdf	
14.	Mrs. S Durga Madhuri, Dr. M.Rajan Babu	Design of Coin Sensor based Mobile Charging System	International Journal Of Scientific Research In Engineering And Management	2024	--	2582-3930	<a href="https://ijsrem.com/download/design-of-coin-sensor-based-mobile-charging-system/">https://ijsrem.com/download/design-of-coin-sensor-based-mobile-charging-system/</a>	UGC Care Journal
15.	Mr. K. Gurucharan, Dr. M. RajanBabu, Mr. S.S Kiran	Designing Of Computer Vision Based Safety Gear Detection Using Yolo V8 And Jetson Nano	International Journal of Scientific Research in Engineering and Management	2024	--	2582-3930	<a href="https://www.researchgate.net/publication/382801791_DESIGNING_OF_COMPUTER_VISION_BASED_SAFETY_GEAR_DETECTION_USING_YOLO_V8_AND_JETSON_NANO_International_Journal_of_Scientific_Research_in_Engineering_and_Management_IJSREM">https://www.researchgate.net/publication/382801791_DESIGNING_OF_COMPUTER_VISION_BASED_SAFETY_GEAR_DETECTION_USING_YOLO_V8_AND_JETSON_NANO_International_Journal_of_Scientific_Research_in_Engineering_and_Management_IJSREM</a>	UGC Care Journal

**Details of Publication in Conferences**

S. No.	Name of the Faculty	Title of the Paper	Title of Conference	Year	Link The Article	Organized by
1.	Dr.R. Santosh	Performance Evaluation of	2nd World Conference on Communication &	2024	<a href="https://ieeexplore.ieee.">https://ieeexplore.ieee.</a>	IEEE



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		Indium with Group V Based Semiconductor in JLTFET Device	Computing (WCONF)		org/document/10692094	
2.	Dr.L. Alekhya	Cardiotocogram Data Generation using CT-GANs for Enhancement of Performance metrics used for Classification Models	E3S Web Conferene, International Conference on Renewable Energy Resources and Applications	2024	<a href="https://doi.org/10.1051/e3sconf/202459108007">https://doi.org/10.1051/e3sconf/202459108007</a>	Scopus
3.	Mr. B.Ramamoha, Mrs. P.Sravanthi	Design of Compact 4×4 MIMO Antenna for High-Speed Connectivity in the X-Band Applications	2024 IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies	2024	<a href="https://ieeexplore.ieee.org/document/10895996">https://ieeexplore.ieee.org/document/10895996</a>	IEEE
4.	Dr. R. Santosh	Prediction of Multiple Microbes Present in Single Image Using Advanced Deep Learning Models	2024 2nd World Conference on Communication & Computing	2024	<a href="https://ieeexplore.ieee.org/document/10692208">https://ieeexplore.ieee.org/document/10692208</a>	IEEE
5.	Dr. R. Santosh	Enhancing Microbes Prediction Accuracy Through Advanced Deep Learning Models	2nd World Conference on Communication & Computing	2024	<a href="https://ieeexplore.ieee.org/document/10692076">https://ieeexplore.ieee.org/document/10692076</a>	IEEE



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### Details of publications in Book Chapters

S. No.	Name of the Faculty	Title of the Chapter	Title of the Book	Year	Page Numbers	Link to The Article	Publisher Details
1.	Mr. K. Gurucharan, Mr. S S Kiran, Dr. M. Rajanbabu, Mrs. P.Srujana	Advancements in deep learning unveiling future trends and applications across ai for intelligent computing	Artificial Intelligence for Intelligent Systems: Fundamentals, Challenges, and Applications	2024	27–50	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003496410-3/advancements-deep-learning-gurucharan-kiran-mallavarapu-rajnababu-srujana?context=ubx&amp;refid=772251f1-15ce-46e8-912e-ad25d2443bdc">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003496410-3/advancements-deep-learning-gurucharan-kiran-mallavarapu-rajnababu-srujana?context=ubx&amp;refid=772251f1-15ce-46e8-912e-ad25d2443bdc</a>	Scopus