



LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institute, Approved by AICTE, Permanently Affiliated to JNTUGV)

(Accredited by NAAC with "A" grade)

Jonnada (Village), Denkada (Mandal), Vizianagaram Dist – 535 005

Phone No. 08922-241111, 241112

E-Mail: lendi_2008@yahoo.com

Website: www.lendi.org

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Granted patents

Academic Year	2024-25	2023-24	2022-23	2021-22	Total
No. of Patents	04	03	01	01	09

Summary of Granted Patents

S.No.	Title	Author Name	Patent Number	Application Number	Granted Date	Term of Patent
1.	Dual Circularly Polarized Dielectric Resonator Based Compact Hybrid Antenna for Dual-Functional applications	Dr.N.Rajasekh jar, Dr.D.Naresh kumar	559455	202141041 798	03/02/2025	20 years from the 16th day of September 2021
2.	Wearable ECG Monitoring Device with Bluetooth Connectivity	Dr. S. Sridhar, Dr. B. Sridhar	6408633	--	08/12/2024	--
3.	DNN based Underwater Acoustic Device for Massive MIMO Communication	Mr.Sk. Azeez	391532-01	--	19/09/2024	--
4.	AI Based Digital Clock	Dr. B. Srikant Kumar	6381062	--	05/08/2024	--
5.	A Modified Bowtie Slotted Circular Patch Antenna	Dr.D.Naresh Kumar	534184	20174103 4823	22/04/2024	20 years from the 30th day of September 2017
6.	Curvy Rectangular Slotted Substrate Integrated Cylindrical DRA With Wide CP Bandwidth And	Dr.D.Naresh Kumar	528309	20174103 5257	15/03/2024	20 years from the 5th day of October 2017



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7.	A Quad-Band Asymmetric Dual L –Slot Fed Dielectric Resonator Antenna (DRA) With Circularly Polarized Bands	Dr.D.Naresh Kumar	517989	20174103 5252	29/02/2024	20 years from the 5th day of October 2017
8.	A Compact Hexagonal-Triangular Fractal Antenna For Wideband Applications	Dr.D.Naresh Kumar	421939	20164104 3763	16/02/2023	20 years from the 22nd day of December 2016
9.	Manually operated multi level Modular Brick Moulding Apparatus	Dr. S. Sridhar	390170	20204101 0671	23/02/2022	20 years



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Published patents

Academic Year	2024-25	2023-24	2022-23	2021-22	Total
No. of Patents	2	1	4	10	17

Summary of Published Patents

S.No	Title	Author Name	Application Number	Filed Date	Published Date
1.	AI and EEG-Integrated VR System and Method for Creating Synchronized Visual Environments from Audio Data	Mrs. M. Sujatha, Dr. D.Naresh Kumar	202441076616	09/10/2024	18/10/2024
2.	Implementation of Intelligent Battery Management System by Effective Charge Monitoring With Fire Protection for Electrical Vechiles	Dr. M.Rajan Babu, Mr.S S kiran, Mr.K. Gurucharan	202441055508	20/07/2024	09/08/2024
3.	ANN And KNN Algorithm Investigation Of Intelligent And Smart Irrigation Systems Utilizing Edge Computing	Mr. S.Suresh Kumar, Mr.B.Hemanth Nag	202441019999	18/03/2024	29/03/2024
4.	An electric vehicle flexible charging system using internet of things and smart interfaces and working method thereof	Mrs.P.Srujana	202341000819	04/01/2023	13/01/2023
5.	Novel approach to identify the Security Issues in Internet of Things (IoT) and Cloud Computing Service Model with Suggested Solution.	Mrs.P.Srujana	202341001050	05/01/2023	13/01/2023
6.	Developing an Internet of Medical Things (IoMT) device supported by Deep Convolutional Neural Networks (CNN) using Liquid Crystal Polymer (LCP) sensors for detection and analysis of Covid	Mr.S.S.Kiran, Dr. M. Rajan Babu, Mr. K.Gurucharan, Mrs. P. Srujana.	202241041636	20/07/2022	29/07/2022
7.	A forccating system for electric vehicles using machinelearning and artificial intelligence	Mrs. R.DivyaKanti	202341000091A	02/01/2023	13/01/23



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8.	An artificial intelligence based integrated IoT healthcare system for cancer care and method thereof	Dr. B. Sridhar	202241022606	17/04/2022	13/05/2022
9.	Artificial Intelligence based Automatic Healthcare Management system for detection and prevention of Pancreatic Cancer using Multidetector Computed Tomography, Image processing and Machine Learning algorithms	Dr. M. RajanBabu, Mr. D. Suresh Kumar, Mr. M Ravendra Kumar, Mr. Sk.Azeez	202241021628	11/4/2022	22/04/2022
10.	A System for privacy - preserving medical record searching engine for an artificially intelligent based diagnosis in IoT healthcare	Dr. B. Sridhar	202241020616	5/4/2022	15/04/202
11.	A Sturdy dataset for RF MEMS switches dimensions prediction using cascade feed forward neural network	Dr. M. Rajan Babu, Dr. B. Kiranmai Mr. K. Gurucharan, Mr.S.S.Kiran	202241020064	2/4/2022	15/04/2022
12.	The Blockchain and Artificial Intelligence based IoT Environment for 6G Wireless Network	Mr.Sk.Azeez	202241001610	11/1/2022	4/2/2022
13.	An IOT equipment based secured cloud networkcommunication method	Mr. V.Nancharaiah	202141061935	30/12/2021	4/2/2022
14.	A System Based On Deep Learning Three-Dimensional Pipeline Reconstruction And Method Thereof	Mr.V. Nancharaiah	202131050687	4/11/2021	10/12/2021
15.	E- Fuzzy Feature Fusion And Thresholding Based System For Morphology Segmentation Of Brain MRI Modalities	Mrs. Ch. Gayatri	202021105895	28/10/2021	8/12/2021
16.	Organic cake based Herbal Mosquito repellent composition and preparation method thereof	Dr. S. Sridhar	202141051384	10/11/2021	26/11/2021
17.	Dual Circularly Polarized Dielectric Resonator Based Compact Hybrid Antenna for Dual Functional Applications	Dr.N.Rajasekhar	202141041798	16/09/2021	1/10/2021