



VARDHAMAN
COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering
Faculty Patents AY 2025-2026

#	Title of the Patent	Name of the Faculty	Patent no	Application Date /Publication Date	Name of Applicant
1	HYGIENE MANAGEMENT SYSTEM FOR WASHROOMS	Penta Niharika Nagilla Sindhuri Pabba Sahithi Raghupatruni Varshitha Bandi Balakrishna Rajitha Ala Dr. V Jyothi Swati Sucharita	202541068864	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman
2	SUSTAINABLE WINDOW-MOUNTED AIR FILTRATION SYSTEM	Makineni Uday Kiran Yellangari Pranav Sreevatsa Ayilvar Raj Kumar Bestha Mohan Krishna Kalluri Jeevan Swamy Tareeq Zaid Dr. M Srilatha B. Raja Gopal Reddy K Anvesh	202541066013	Application Date: 10/07/2025 Publication Date: 25/07/2025	Vardhaman
3	PERSONAL SAFETY DEVICE	V.Sanjeev Kumar R. Dixitha R. Manasa D.Sai Ruthvik Rajitha Ala Tareeq Zaid A Bhanu Prasad A Ramesh	202541068867	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman

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4	AUTONOMOUS HAZARD MITIGATION SYSTEM FOR LABORATORY ENVIRONMENTS	K.Anil G.Sai Mohan G.Varun Baini Anusha Rani Tareeq Zaid Dr. E R Aruna Haleema	202541068865	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman
5	AUTOMATED NO-PARKING ENFORCEMENT SYSTEM	S. Shruthi G. Rishi Sarayu K. Adithya Zuwaina Noorain B. Anusha Rani G. Krishna Teja Dr. K Nikhila Swetha Priyanka	202541068863	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman
6.	SECURE PARCEL RECEPTION DEVICE	Bandi Balakrishna Dr. Padmini Cheerla Godavarthy Krishna Teja Mounika Yesaswini Rajitha Ala Baini Anusha Rani Mavoori Pratussha Sowmya Reddy Tareeq zaid S.Vinod Reddy	202541068862	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman
7.	WEARABLE DEVICE FOR UPPER LIMB SUPPORT	Ididhineni Abhinash Appala Jashwanth Madapathi Vivekananda Swamy Morla Raju Godavarthy Krishna Teja Tareeq Zaid Dr. Shanti Makka Dr. Praveen Oggu	202541068861	Application Date: 18/07/2025 Publication Date: 25/07/2025	Vardhaman
8.	AI-ENABLED EMBEDDED SYSTEM FOR PREDICTIVE MAINTENANCE OF MEDICAL EQUIPMENTS	J Krishna Chaithanya J Swetha Priyanka V Jyothi M Srilatha M Pratyusha JVR Ravindra	202541109965	Application Date: 12/11/2025 Publication Date: 28/11/2025	Vardhaman

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9.	LIGHTWEIGHT EMBEDDED CYBERSECURITY MODULE TO PROTECT IOT NETWORKS FROM HACKING AND DATA TAMPERING	J Krishna Chaithanya J Swetha Priyanka V Jyothi M Srilatha M Pratyusha JVR Ravindra	202541109966	Application Date: 12/11/2025 Publication Date: 28/11/2025	Vardhaman
10	SMART RECONFIGURABLE META-SURFACES INTEGRATED WITH AI SIGNAL CONTROL FOR ADAPTIVE BEAM REFLECTION AND IMPROVED WIRELESS COVERAGE	V. Harini D. Praveen Kumar GAE. Satish Kumar Naresh kumar. M A. Jaya Lakshmi K.H. Murali Naik	202541115919	Application Date: 24/11/2025 Publication Date: 12/12/2025	Vardhaman
11	DEEP LEARNING-BASED SIGNAL DENOISING AND FEATURE EXTRACTION FOR WEARABLE ECG, EEG, OR EMG SYSTEMS	K.H. Murali Naik Naresh kumar. M A. Jaya Lakshmi V. Harini D. Praveen Kumar GAE. Satish Kumar	202541115933	Application Date: 24/11/2025 Publication Date: 12/12/2025	Vardhaman
12	IRRESPONSIBLE DRIVING DETECTION SYSTEM	K. Sandhya, K. Anudeep Chary, K. Ganesh Vardhan, M. Jeya Pandi, Rajitha Ala, Tareeq Zaid, Dr. MA Jabbar, Dr. Ramesh Karnati	202541061699	Application Date: 27/06/2025 Publication Date: 11/07/2025	Vardhaman
13	MOBILE HUGELKULTUR GARDENING ASSISTIVE SYSTEM	Parasani Bhavya, Manolla Ananya, Kukkala Vardhan Yadav, Thunikipati Manish, Samudrala Manogney, Baini Anusha Rani, Rajitha Ala, Krishna Teja, Pratusha	202541066014	Application Date: 10/07/2025 Publication Date: 25/07/2025	Vardhaman

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14	WEARABLE KNEE SUPPORT AND REHABILITATION DEVICE	Panchalingala Varaprasad Reddy, E.Durga Prasad, S. Arun Kumar, V.Mahesh Chary, Aditya Pavan Goud, Godavarthy Krishna Teja, Tareeq Zaid, Dr. P. Venkateshwar Reddy, Dr. S Venu Gopa	202541067548	Application Date: 15/07/2025 Publication Date: 25/07/2025	Vardhaman
15	PERSONALIZED HYDRATION DEVICE	Mudavath Pavan Kumar Naik, Kodaganti Akshith, Vankdothu Seetharam, Thota Sowmithsai, Godavarthy Krishna Teja, Tareeq Zaid, Dr. Munisekhar Velpuru, Dr. Gouse Baig	202541067549	Application Date: 15/07/2025 Publication Date: 25/07/2025	Vardhaman
16	PLANT SAPLING PREPARATION SYSTEM	Punna Pranitha, Vallu Somnath Reddy, Dr. Padmini Cheerla, Mounika Yesaswini, Dr. Uma Maheswar, Rao, Dr. T. Anuradha Devi, B Koushika, B Lavanya Shaik Arif	202541070644	Application Date: 24/07/2025 Publication Date: 01/08/2025	Vardhaman
17	SEARCH AND RESCUE SYSTEM	Dr. Md Asif Mandepudi Rohith Medha Meka S Vinod Reddy Dr. C. Padmini Dr. P Mounica Tareeq Zaid	202541070646	Application Date: 24/07/2025 Publication Date: 01/08/2025	Vardhaman
18	RAILWAY TRACK MONITORING AND MAINTENANCE SYSTEM	Rajitha A, Mounika Yesaswini, N. Poojitha, S. Munna, U. Tanvi, V. Harsha,	202541073035	Application Date: 31/07/2025 Publication Date: 15/08/2025	Vardhaman

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		Dr. V Lokeshwari Vinya, A Rama Krishna			
19	VEHICLE PARKING SYSTEM	Rajitha Ala A.Mounika Yesaswini, B. Sai Sri, Ch. Shushanth, Ch. Krishwanth, D. Hemalatha, Ganesh Deshmukh, Dr. Shaik Imam Saheb	202541073032	Application Date: 31/07/2025 Publication Date: 15/08/2025	Vardhaman
20	FLOOD WATER TREATMENT SYSTEM	Mandepudi Rohith, S Vinod Reddy, B Akshay Kumar, Dr. T Anuradha Devi, Dr. N Karuppaih, N Srinivas, Dr. C. Padmini	202541073034	Application Date: 31/07/2025 Publication Date: 15/08/2025	Vardhaman
21	VEHICLE INSPECTION SYSTEM	B. Anusha Ran M. Pratussha B. Nithin Bharadwaj S. Sathwik Y. Siddhartha Reddy M. Sai Siri Shriya R. Meenakshi A Rama Krishna Nagarjuna Malladhi	202541076855	Application Date: 12/08/2025 Publication Date: 05/09/2025	Vardhaman
22	ROAD SAFETY SYSTEM	N.Deepika Rani, V.Shravya, T.Advaitha, P.Raghavika, Bandi Balakrishna, Rajitha Ala, Dr. Karthikeyan R, S Naresh Kumar, M Nagarjuna, K Chaitanya	202541075815	Application Date: 08/08/2025 Publication Date: 05/09/2025	Vardhaman

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23	WASTEWATER TREATMENT SYSTEM	G.Sree Sanjana, G. Upendar, K. Charan, M. Abhinai, Rajitha Ala, Tareeq Zaid, U Pranavi, Shaista Farhat	202541073029	Application Date: 31/07/2025 Publication Date: 15/08/2025	Vardhaman
24	MODULAR WINDOW SYSTEM FOR VEHICLES	Boyini Pavankumar, Dasari Srichandana, G Charan Chandra, Kasarla Shashank Reddy, Pathi Bipin Raj, B. Anusha Rani, M. Pratussha, Dr. S Ravi Varman	202541073026	Application Date: 31/07/2025 Publication Date: 15/08/2025	Vardhaman
25	ELECTRIC VEHICLE BATTERY STORAGE SYSTEM	Mandepudi Rohith, Medha Meka, Banoth Snehalatha, K.Sainatha Chary, K Raghavendar, S Vinod Reddy, Bandi Balakrishna, Dr. C. Padmini	202541074590	Application Date: 05/08/2025 Publication Date: 05/09/2025	Vardhaman
26	TRAVEL ESSENTIALS MANAGEMENT DEVICE	Hari Haran Chintalapati, Sriram Reddy Gandrathi, Sahas Kiran Pasunoti, Vinith Wade, Rajitha Ala, Bandi Balakrishna, Dr. B Srikanth, Gireesh Agarwal	202541074586	Application Date: 05/08/2025 Publication Date: 05/09/2025	Vardhaman
27	WEARABLE CROP HANDLING DEVICE	Pogula Madhusudhan Reddy, Kuluru Sai Charan, C. Padmini, Bandi Balakrishna, Godavarthy Krishna Teja, Rajitha Ala, S.Vinod Reddy	202541092714	Application Date: 26/09/2025 Publication Date: 24/10/2025	Vardhaman

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28	FEDERATED LEARNING-BASED PRIVACY-PRESERVING HEALTHCARE ANALYTICS SYSTEM	Ms. VANKUDOTH VINOD KUMAR, Ms. M BHARATHI, Dr. RAVULA ARUN KUMAR, Dr. CHEERLA PADMINI, Dr. PATIL MOUNICA, Mr. SARELLA NARESH KUMAR	202541123906	Application Date: 09/12/2025 Publication Date: 02/01/2026	Vardhaman
29	AI-GUIDED NAVIGATION SYSTEM FOR VISUALLY IMPAIRED INDIVIDUALS USING CV	Dr. MAHESH SUBBURU, Prof. HUSNABAD VENKATESWARA REDDY, Dr. VEMULA HARINI, Dr. CHAPPIDI SREENIVASA RAO, Dr. KMURUGAPERUMA LMr. NIRMAL KESHARI SWAIN	202541124273	Application Date: 09/12/2025 Publication Date: 02/01/2026	Vardhaman
30	IOT-INTEGRATED SMART SENSOR GRID FOR PRECISION AGRO-MONITORING	Mr. KADAMBALA CHAITANYA Dr. MANGALAPURI VENKATESWARLU Ms. RUQQAIYA BEGUM Mr. V N S VIJAYA KUMAR Mr. ABHISHEK DIXIT Prof. J V R RAVINDRA	202541124767	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
31	ADAPTIVE AI-DRIVEN QUERY OPTIMIZATION ENGINE FOR LARGE-SCALE DATASTORES	Mr. BHARATH REDDY A Ms. M BHUVANESWARI Dr. SHANTHI MAKKA Dr. VASANTHA S V	202541124788	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman

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		Mr. MALLADHI NAGARJUNA Dr. ARIKATLA JAYA LAKSHMI			
32	SELF-HEALING SOFTWARE ARCHITECTURE USING PREDICTIVE MACHINE LEARNING MODELS	Dr. GAGANDEEP ARORA Dr. NAGIREDDY HANUMAN REDDY Ms. CHINTA ANUSHA Dr. MADHUNALA SRILATHA Mr. TAREEQ ZAID Dr. SHANMUGASUNDA RAM RAVIVARMAN	202541124823	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
33	AUTONOMOUS ROBOTIC INSPECTION SYSTEM FOR MANUFACTURING QUALITY CONTROL	Dr. PRAVEEN OGGU Dr. SRIKANTH R Mr. KADULLA HARIBABU Dr. SUNKARABOINA SREENU Ms. MAVOORI PRATUSSHA Dr. P NARESH KUMAR REDDY	202541124876	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
34	HOMOMORPHIC ENCRYPTION-BASED DATA SHARING FRAMEWORK FOR CLOUD SERVICES	Dr. K SRIDHAR REDDY Ms. ASHIMA JAIN Dr. M NARESH KUMAR Dr. PURNA CHANDRA REDDY V Mr. SATHEESH KUMAR S Dr. SAMEERA KHAN	202541124932	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
35	SECURE MULTI-PARTY COMPUTATION ENGINE FOR FINANCIAL TRANSACTIONS	Mr. G RAVI KUMAR Mr. G E AGRAWAL Dr. JANAPATI KRISHNA CHAITHANYA Dr. BOPPIDI SRIKANTH	202541124933	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman

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		Dr. VEMULA HARINI Ms. SHAIKH SUMAIYA			
36	DEEP AUTOENCODER-BASED ANOMALY DETECTION SYSTEM FOR DISTRIBUTED DATABASES	Dr. INDRAJEET SAHU Ms. GANDI MOUNIKA NAIDU Ms. SOWMYA M Ms. PALLAMONI S MADHAVI Mr. SANDIRI SRINIVAS Dr. VELPURU MUNI SEKHAR	202541124937	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
37	AI-DRIVEN PERSONALIZED MEDICATION RECOMMENDATION AND SCHEDULING SYSTEM	Dr. E.R. ARUNA Dr. VASANTHA S V Ms. SHAIK SHAHANAZ Dr. R KARTHIKEYAN Dr. K NARSIMHA REDDY Dr. DEVULAPALLI PRAVEEN KUMAR	202541124941	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
38	AI-POWERED TRAFFIC FLOW FORECASTING AND ADAPTIVE SIGNAL CONTROL SYSTEM	Dr. JAGINI NAGA PADMAJA Mr. V SHASHIVANTH Dr. RAGHAVENDRA GOWDA D Mr. D GANESH Ms. KOTI TEJASVI Dr. AILABOINA VIJAYA LAKSHMI	202541124944	Application Date: 10/12/2025 Publication Date: 02/01/2026	Vardhaman
39	AI-BASED STRUCTURAL HEALTH MONITORING OF BRIDGES	Ms. BARU PRASHANTHI Ms. T ISHVERYA Dr. VADTHYAVATH JYOTHI Ms. SWAPNA B Dr. A SUHASINI Mr. NALLIMILLI SRINIVASA REDDY	202541126405	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman

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40	PREDICTIVE LANDSLIDE EARLY WARNING SYSTEM USING MACHINE LEARNING	Dr. MAHESH SUBBURU Dr. ARNAB DEB NATH Mr. UPPALA NIHAR Ms. SAHEZADI BEGUM Ms. DHULIPALA MADHAVI Prof. SANDIRI RAJENDAR	202541126403	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman
41	ENERGY-EFFICIENT BUILDING DESIGN USING GENERATIVE AI MODELS	Dr. MARUPATI SIDDHARTHA Dr. RAMESH GADE Dr. ARNAB DEB NATH Dr. K L RAGHAVENDER REDDY Dr. PRAKASH KUMAR SARANGI Dr. KHETHAVATH HEERAMAN MURALI	202541126402	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman
43	EMBEDDED VISION SYSTEM FOR AUTOMATED TRAFFIC VIOLATION DETECTION	Mr. ANDRAJU BHANU PRASAD Dr. MOHAMMAD GOUSE BAIG Mr. SAI MADHAV RAJ ALAKUNTLA Dr. SUNKARABOINA SREENU Dr. B PRAVEEN KUMAR Mr. VINAYAK	202541126399	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman
44	AI-ENHANCED MICROCONTROLLER-BASED SENSOR FUSION FRAMEWORK	Dr. SHANTHI MAKKA Dr. JANAPATI KRISHNA CHAITHANYA Mr. S VINOD REDDY Dr. B K MADHAVI Prof. MANNAVA YESUBABU Ms. ALA RAJITHA	202541126397	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman

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45	SMART PAVEMENT MONITORING SYSTEM USING WIRELESS SENSOR NETWORKS	Ms. BOGOLU RUPA Ms. BAINI ANUSHA RANI Dr. I. BABU Mr. KULKARNI VIVEK Dr. S VENKATA SIVA KUMAR Dr. SRINIVAS PAVAN KUMAR A	202541126398	Application Date: 13/12/2025 Publication Date: 02/01/2026	Vardhaman
46	DEEP LEARNING-BASED SATELLITE IMAGE ANALYSIS FOR DISASTER MANAGEMENT	Dr. G NAARESH REDDY Dr. RASHMI KHAMBENOUR Mr. VAGGELA RAMA CHANDRA MURTHY RAJU Dr. PRAKASH KUMAR SARANGI Ms. ANNA GEETHANJALI Ms. FARHANA BEGAM	202541126089	Application Date: 12/12/2025 Publication Date: 02/01/2026	Vardhaman
47	AI-AUGMENTED CYBERSECURITY THREAT DETECTION FOR CRITICAL INFRASTRUCTURE	Dr. RAJKUMAR BODDHULA Ms. CHELPURI HEMALATHA Ms. KEERTHI PENDAM Ms. UMA DATTA AMRUTHALURU Dr. CHEERLA PADMINI Dr. E RAVI KUMAR	202541126088	Application Date: 12/12/2025 Publication Date: 02/01/2026	Vardhaman
48	AUTONOMOUS SEARCH-AND-RESCUE ROBOTS USING MULTI-SENSOR FUSION	Dr. RAJKUMAR BODDHULA Dr. CHADALAVADA NAGA PRIYANKA Dr. SEKKERI VENU GOPAL Dr. VADTHYAVATH JYOTHI Mr. ADIRAJU RAMAKRISHNA Prof. BEGORI VENKATESH	202541127110	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman

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49	SELF-OPTIMIZING IOT NODES FOR SMART CITY APPLICATIONS	Dr. S SRINIVAS REDDY Mr. ANANDKUMAR B Dr. KARNATI RAMESH Prof. SANDIRI RAJENDAR Dr. KESHAMPETA ASHWINI Dr. GHANATHE RAMESH	202541127111	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman
50	AI-BASED FAULT-TOLERANT EMBEDDED SYSTEM FOR SPACE APPLICATIONS	Prof. Y VIJAYALATA Dr. V MOHAN Ms. A ASHWINI Dr. CHUNDURI MADHURYA Dr. I. BABU Mr. ANASURI BOSU BABU	202541127109	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman
51	AI-ENABLED EARTHQUAKE EARLY WARNING SYSTEM USING IOT SENSORS	Dr. PRAVEEN OGGU Dr. K L RAGHAVENDER REDDY Ms. N DEEPIKA RANI Ms. DUMPALA DHANA LAKSHMI Mr. KETHI REDDY SRIPAL REDDY Ms. INDIRARANI GUNTU	202541127106	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman
52	SECURE FEDERATED LEARNING FOR EDGE NETWORK INTRUSION DETECTION	Dr. RAMESH GADE Mr. G MAHENDER Dr. SANGEETHA SINGH Dr. DEVIREDDY NAGAMALLESWARI Dr. SIDDI SHASHI DEVI	202541127093	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman
53	IOT-BASED NETWORK CONGESTION PREDICTION AND CONTROL SYSTEM	Prof. GANDLURU A. E. SATISH KUMAR Dr. BOPPIDI SRIKANTH Dr. A C UMAMAHESHWER RAO Dr. SAMALA THIRUPATHI	202541127097	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman

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		Dr. P NARESH KUMAR REDDY Dr. DEVIREDDY NAGAMALLESWARI			
54	QUANTUM MACHINE LEARNING FOR HIGH- SPEED INDUSTRIAL OPTIMIZATION	Dr. MUNIGANTI RADHA KRISHNA Prof. MEERJA AKHIL JABBAR Ms. VIJAYLAXMI Dr. AILABOINA VIJAYA LAKSHMI Ms. SWETHA POLISETTY Mr. YUGANDHAR MANCHALA	202541127094	Application Date: 15/12/2025 Publication Date: 02/01/2026	Vardhaman

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