PATENT DETAILS FROM 2020 to 2025

Sl. No.	Name of the faculty	Department	Title	Patent Type	Date of filing	Date of publication	Application No.	Status
2021								
1.	Dr. Venkateswara Rao Kolli	ECE	Advance and High Sensitive Photonic Crystal Mach-Zehnder-Interferometer Based Pressure-Sensor	Indian Utility	25-10-2021	05-11-2021	202141048718	Granted
2022								
1.	Madhu P	Mechanical	Device and System to Mend Polymer and Composite Sheets on Greenhouses and Polysheet Shadenet Structures	Indian Utility	08-05-2022	08-12-2022	202241044724	Awaiting Request for Examination
2.	Geetha Kiran A	CSE	A System for Yield Estimation of Mango Fruit Crop Using Deep Learning	Indian Utility	10-07-2020	08-04-2022	202041043720	Reply Filed. Application in amended examination
3.	CM Naveen Kumar	CSBS	AI-Based Hybrid Aircraft for Medicine Deliveries in Remote and Disaster Areas Using IOT	Indian Utility	28-12-2021	04-02-2022	202141061347	Awaiting Request for Examination
4.	CM Naveen Kumar	CSBS	Facial Emotion Detection Using Semi-Supervised Modified Self-Organizing Feature Map Neural Network Method	Indian Utility	05-11-2022	24-06-2022	202221027213	Awaiting Request for Examination
5.	CM Naveen Kumar	CSBS	Data science, AI, ML algorithms Based Paddy-Disease Avoidance system using DNN and Image Processing approach	Indian Utility	26-06-2022	07-08-2022	202241037444	Awaiting Request for Examination
6.	Hemaraju B C	Physics	A Nanostructured Unidirectionally Conducting Polymer	Indian Utility	11-11-2022	25-11-2022	202241064809	Awaiting Request for Examination
2023								
1.	Prem Kumar BG, Madhu KS	Mechanical	Investigation on Sliding Wear Behaviour of Zinc Alloy Reinforced	Indian Utility	10-03-2023	20-10-2023	202341066233	Awaiting Request for

			with Nano B_4C Composite					Examination
2.	Venkateswara Rao Kolli, Indira Bahaddur	ECE	A Novel 8-Channel DWDM demultiplexer on Silicon Photonic Crystal slab: Design and Analysis	Indian Utility	21-07-2023	01-09-2023	202341049418	Awaiting Request for Examination
3.	Venkateswara Rao Kolli, Indira Bahaddur	ECE	Super defect inside photonic crystal ring resonator to enhance Q-factor	Indian Utility	21-07-2023	01-09-2023	202341048096	Awaiting Request for Examination
4.	Venkateswara Rao Kolli, Indira Bahaddur	ECE	4-Channel DWDM demultiplexer on silicon photonic crystal slab	Indian Utility	21-08-2023	29-12-2023	202341056018	Awaiting Request for Examination
5.	Venkateswara Rao Kolli	ECE	Integrated optical MEMS serially coupled double racetrack resonator based accelerometer and high Q-factor photonic crystal microring-resonator based pressure sensor	Indian Utility	07-09-2021	09-06-2023	202141040452	Granted
6.	Venkateswara Rao Kolli	ECE	Spoof Surface Plasmon Polaritons Waveguide for Sensor based Applications	Indian Utility	15-05-2023	23-06-2023	202341033912	Awaiting Request for Examination
7.	Venkateswara Rao Kolli	ECE	False Positive automatic Reduction in DDoS attack classification using ANN simulation	Indian Utility	03-08-2023	01-09-2023	202341052113	Awaiting Request for Examination
8.	Venkateswara Rao Kolli	ECE	Investigation of Network Anomaly Detection Techniques for Distributed Denial of Intelligent Service Attacks	Indian Utility	03-08-2023	01-09-2023	202341052114	Awaiting Request for Examination
9.	HL Prakruthi	ECE	Design and Development of MEMS Sensor for Industrial Health Monitoring	Indian Utility	02-09-2023	24-02-2023	202341008529	Awaiting Request for Examination
10.	M Ramesh, Rajanna S, Venkateswara Rao Kolli	EEE/ ECE	Dispatch Strategies-based Performance Analysis of a Hybrid Renewable Energy System for a Remote Rural Area in India	Indian Utility	21-07-2023	01-09-2023	202341049419	Awaiting Request for Examination
11.	Pramodh HK	EEE	Smart Energy Meter to Incorporate Demand Response	Indian Utility	29-12-2022	06-01-2023	202241076943	Awaiting Request for Examination

12.	Swathi H Y	AI & ML	Advanced Acoustic Signal Processing and Classification System for Comprehensive Crowd Dynamics Analysis	Indian Utility	05-09-2023	10-06-2023	202341059505	Awaiting Request for Examination
13.	CM Naveen Kumar	CSBS	Classification of Mental Stress and Psychological Disorder from Electrocardiogram Signals using Machine Learning Approach	Indian Utility	03-09-2023	04-07-2023	202341020626	Awaiting Request for Examination
2024								
1.	Kishor Kumar S, Krishnaswaroop C D, H S Narashimhan, Hareesha M, Prathap M S, Shambulinga Murthy G C, Hemanth Kumar B M	Civil/ Mechanical/ ECE	Green Roof System with Integrated Rainwater Harvesting	Indian Utility	04-06-2024	14-06-2024	202441043401	Awaiting Request for Examination
2.	Madhushree	Civil	Pervious Concrete Kerbs for Enhanced Runoff Water Management on Highways	Indian Utility	26-12-2024	03-01-2025	202441103427	Awaiting Request for Examination
3.	Madhushree C, Lavanya HD, Chandini MS, Manu K C, Siri Hemanth, Shamana B S	Civil	Advanced Constructed Soil Filtration System for Efficient Wastewater Renovation	Indian Utility	20-10-2024	25-10-2024	202441079643	Awaiting Request for Examination
4.	Madhu P	Mechanical	Development of Advanced Prosthetic Device for Blind Amputees	Indian Utility	11-12-2021	26-11-2024	202141051978	Granted
5.	Madhu P	Mechanical	Nano Materials to Replace the Augment Human Tissues	Indian Utility	17-02-2024	09-06-2024	202441011121	Awaiting Request for Examination
6.	Karthik S, Madhu P, Sharath B N,	Mechanical	Eco-Friendly Venturimeter: Chemically Treated Coir Fiber	Indian Utility	12-07-2024	02-08-2024	202441053537	Awaiting Request for

	Premkumar B G, Madhu K S, Jeevan T P, Hemanth T S, Pradeep D G		Reinforced Bio-PLA Composite Via 3D Printing					Examination
7.	Yashas Gowda TG, Jeevan TP, Hemaraju BC, Pradeep Kumar CB	Mechanical/ Physics/ Chemistry	High-Performance Biodegradable Polymer Composites for Structural Applications	Indian Utility	23-08-2024	06-09-2024	202441063699	Awaiting Request for Examination
8.	Venkateswara Rao Kolli, CL Triveni	ECE	A Spectrum allocation using Gaussian distribution for solving the RSA problem in spectrum sliced EON	Indian Utility	11-12-2024	20-12-2024	202441097694	Awaiting Request for Examination
9.	Santhosh Kumar KB, Sushma N, Indira Bahaddur, Raghuram K A	ECE	FPGA-Powered Telemedicine System for Efficient and Secure 5g Wireless Transmission of EEG Signals with Optimized Pilot-Based Channel Estimation	Indian Utility	29-01-2024	23-02-2024	202441005605	Awaiting Request for Examination
10.	Dakshayini M R, Indira Bahaddur, Murthi Mahadeva Naik G, Santhosh Kumar K B, Sushma N	ECE	Method of Predicting Crop Yield by Processing Satellite Imagery through Machine Learning	Indian Utility	08-06-2024	16-08-2024	202441059247	Awaiting Request for Examination
11.	Venkateswara Rao Kolli, Indira Bahaddur, Raghuram K A	ECE	High-Q PC-Based MR Biosensor for the Detection of Glucose in Urine and Blood	Indian Utility	12-12-2024	20-12-2024	202441098497	Awaiting Request for Examination
12.	Venkateswara Rao Kolli, Raghuram K A, Indira Bahaddur	ECE	Integrated optic MR for sensing applications: Design and Analysis	Indian Utility	12-12-2024	20-12-2024	202441098441	Awaiting Request for Examination
13.	Venkateswara Rao Kolli, Indira	ECE	PC hexagonal ring resonator-based 5-channel DWDM demux in C band	Indian Utility	14-12-2024	20-12-2024	202441099162	Awaiting Request for

	Bahaddur, Raghuram K A							Examination
14.	Venkateswara Rao Kolli, Sushma N, Raghuram KA, Santhosh Kumar KB	ECE	PC HRR for Urea, bilirubin, and Albumin Concentration Analysis in Urine	Indian Utility	16-12-2024	20-12-2024	202441099748	Awaiting Request for Examination
15.	Prathap PB	ECE	Optical Fiber-Based Gas Detection Sensor with Enhanced Sensitivity and Selectivity	Indian Utility	04-06-2024	04-12-2024	202441028370	Awaiting Request for Examination
16.	Sushma N, Mohana Lakshmi J, Santhosh Kumar KB	ECE/ EEE	A Wide Range Compatible Water Flow Meter System for Monitoring Water Wastage	Indian Utility	12-01-2024	23-02-2024	202441002638	Awaiting Request for Examination
17.	Gowri Shankar Manivannan	EEE	Automated Boom Barrier Control with Intelligent Image Processing for Vehicle Management	Indian Utility	11-12-2024	20-12-2024	202441097756	Awaiting Request for Examination
18.	Gowri Shankar Manivannan	EEE	Optimizing Hybrid Inverter Design in Solar Systems with a Hybrid Approach of Deep Q-Network and Firefly Algorithm	Indian Utility	10-12-2024	13-12-2024	202441097290	Awaiting Request for Examination
19.	Gowri Shankar Manivannan	EEE	Hybrid Quantum Whale Optimization Algorithm for Intelligent Power Converter Design in Electric Vehicles	Indian Utility	10-12-2024	13-12-2024	202441096906	Awaiting Request for Examination
20.	Gowri Shankar Manivannan	EEE	Efficient Obstacle Detection and Avoidance in Autonomous Robots using Advanced Intelligent Techniques and LiDAR	Indian Utility	11-12-2024	20-12-2024	202441097995	Awaiting Request for Examination
21.	Dhavala RK, Rajanna S, Ramesh M	EEE	An Optimized Battery Integrated Hybrid Renewable Energy System for Remote Rural Electrification	Indian Utility	13-07-2023	02-08-2024	202441053581	Awaiting Request for Examination
22.	Balaji Prabhu B V	CSE (AI & ML)	Smart Aroma Diffuser	Indian Utility	16-10-2024	25-10-2024	202441078545	Awaiting Request for

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23.	Balaji Prabhu B V	CSE (AI & ML)	Hologram Chess	Indian Utility	30-09-2024	24-12-2024	202441073611	Application referred u/s 12 for examination.
24.	CM Naveen Kumar	CSBS	Analysis of Mental Health of High School Student in Education Sector During Pandemic	Indian Utility	02-03-2024	03-08-2024	202441007390	Awaiting Request for Examination
25.	CM Naveen Kumar	CSBS	Artificial Intelligence and IOT-Based Smart Health Care System to Prevent and Detect All Types of Heart Disease	Indian Utility	29-06-2024	07-12-2024	202441050789	Awaiting Request for Examination
2025								
1.	Chandini M S, H S Narashimhan, Dakshayini R S, Manu K C, Madhushree C, Nudi Shree, Shamana B S, Lavanya H D, Hemanth R, Roopa G S	Civil	An Experimental Study on Pervious Concrete as a Paver Block	Indian Utility	01-02-2025	14-02-2025	202541008476	Awaiting Request for Examination
2.	Madhushree C, Ullas M, Preetham Gowda P, Prapul H M, Likith Gowda, Krupa L R, Neha Prakash, Pruthvi N G, Dhanushree M S, Rakshitha K M	Civil	Pervious Concrete Kerbs for Enhanced Runoff Water Management on Highways	Indian Utility	26-12-2024	03-01-2025	202441103427	Awaiting Request for Examination

3.	Madhushree C, H A Samarth, Hrithik M S, Jayanth C H, Likhith A, Jarjo Poyom, Lubuka Koza, Limaonen Jamir, Hikupu Y Awomi, Rayan Iqbal Khan	Civil	PLC-Based Automated Water Bottle Filling And Capping System Using Conveyor And Sensor Technology	Indian Utility	27-12-2024	03-01-2025	202441103903	Awaiting Request for Examination
4.	Chethan Kumar N T, K E Prakash, Supriya M J, Amrutha D S, Indumathi C, Brunda B N, Rajani V Akki, Vinay A	Civil	Enhanced Concrete Composites With Optimized Marble Dust For Improved Mechanical Properties	Indian Utility	16-03-2025	28-03-2025	202541023320	Awaiting Request for Examination
5.	Chethan Kumar N T, Bhavya S, Ruchira S N, Pallavi H J, Karthik M, Amrutha D S, Supriya M J, Indumathi C, Brunda B N, Ravikumar B S	Civil	Enhanced Concrete Composites With Optimized Recycled Concrete Aggregate For Improved Mechanical Properties Using A Linear Regression Model	Indian Utility	15-04-2025	09-05-2025	202541036585	Awaiting Request for Examination
6.	Dushyanth Kumar K R, Swapna P,	Mechanical	Gyroscopic Head Motion Detection And Control System For	Indian Utility	23-04-2025	16-05-2025	202541039272	Awaiting Request for Examination

	Keerthi D S, Sreedevi P, Shivashankara B S, Pratap M S		Quadriplegic Wheelchair Navigation					
7.	Immanual Rajkumar, . Raja Varadharaj, Renjin Jasmine Bright, Satish Vithal Talawar, Vasundhara Mavinahalli Gopalakrishna, Hareesha Manjulaiah	Mechanical	A Solar Based Three-Dimensional Still	Indian Utility	03-04-2024	03-10-2025	202441027699	Application Awaiting Examination
8.	Venkateswara Rao Kolli, Yashaswini P R, P C Srikanth	ECE	A Circular Diaphragm-Based Moems Pressure Sensor Using Ring Resonator	Indian Utility	27-12-2024	03-01-2025	202441103858	Awaiting Request for Examination
9.	Jayanth J, Shyamala C, Ravikiran H K, M S Prapulla Kumar, Ravikumar, Ashwini C, Madhu K M	ECE	A System for Enabling Accurate Multi-Parts Dispensing Using Vision-Based Machine Learning and Industrial Automation	Indian Utility	12-11-2025	28-11-2025	202541110164	Reply Filed. Application in amended examination
10.	Deepika K C, Prathap P B, Raghuram K A, Sushma N and	ECE	Gesture-Controlled Robotic Vehicle using an Arduino or smartphone sensors	Indian Utility	29-12-2025	09-01-2026	202541133164	Awaiting Request for Examination

	Santhosh Kumar K B							
11.	Gowri Shankar Manivannan	EEE	AI-Enhanced Home Automation System for Intelligent Energy Management And Security	Indian Utility	29-07-2024	30-01-2026	202441057245	Awaiting Request for Examination
12.	Gowri Shankar Manivannan & Rajanna S	EEE	AI-Enhanced IOT-Enabled Health Monitoring System For Real-Time ECG Patient Data Analysis and Alerting	Indian Utility	29-07-2024	30-01-2026	202441057225	Awaiting Request for Examination
13.	Gowri Shankar Manivannan & Kiran Kumar Naik	EEE	AI-Driven Multi-Functional Borewell Rescue Robot with Airbag For Enhanced Child Safety	Indian Utility	29-07-2024	30-01-2026	202441057239	Awaiting Request for Examination
14.	Gowri Shankar Manivannan & Rajanna S	EEE	Sustainable Solar-Powered Web Camera System For Real-Time Agricultural Monitoring And Data Collection	Indian Utility	29-07-2024	30-01-2026	202441057242	Awaiting Request for Examination
15.	Gowri Shankar Manivannan & Kumaraswamy S	EEE	Advanced DC Buck Converter Optimization Using Deep Neural Networks for Enhanced Efficiency and Classification of Faults in PV Applications	Indian Utility	29-07-2024	30-01-2026	202441057256	Awaiting Request for Examination
16.	Gowri Shankar Manivannan & Kumaraswamy S	EEE	Advanced Control of Buck-Boost Converter Utilizing Fuzzy CNN for Adaptive Power Management in PV Applications	Indian Utility	29-07-2024	30-01-2026	202441057260	Awaiting Request for Examination
17.	Gowri Shankar Manivannan & Varaprasad N L	EEE	Smart Assistive Gloves with Real-Time Speech Translation for Enhanced Communication for People With Speech Disabilities	Indian Utility	29-07-2024	30-01-2026	202441057263	Awaiting Request for Examination

18.	Nagendra Prasad H K	EEE	Faster Grasshopper Optimization Algorithm (FGOA) for Selective Harmonic Elimination in Cascaded H-Bridge Multilevel Inverters	Indian Utility	21-08-2025	05-09-2025	202541079164	Awaiting Request for Examination
19.	Ankitha S	CSE (AI & ML)	AI-Powered Genomic Pattern Extractor Using Quantum-Inspired Search Optimization	Indian Utility	19-08-2025	29-08-2025	202541078598	Awaiting Request for Examination

DESIGN PATENTS

Sl. No.	Name of the faculty	Department	Patent Type	Date of filing	Date of publication	Application No.	Status
2023							
1.	Madhu P	Mechanical	Indian Design	10-07-2023	15-12-2023	396980-001	Design Accepted and Published
2.	Sushma N, Santhosh Kumar KB	ECE	Indian Design	10-08-2023	29-09-2023	392380-001	Design Accepted and Published
3.	Venkateswara Rao Kolli, Indira Bahaddur, Rajanna S, Ramesh M	ECE	UK design	18-10-2023	25-10-2023	6319739	Registered
2024							
1.	Madhu P, Yashas Gowda TG	Mechanical	Indian Design	11-04-2023	26-04-2024	399240-001	Design Accepted and Published
2.	Pradeep D G	Mechanical	UK Design	23-02-2024	03-04-2024	6348985	Registered
3.	Madhu P	Mechanical	Indian Design	24-04-2024	07-05-2024	414650-001	Design Accepted and Published
4.	Prathap PB, Prakruthi HL	ECE	Indian Design	27-05-2024	02-08-2024	418098-001	Design Accepted and Published
5.	Hemanth Kumar BM, Deepika KC	ECE	UK Design	27-04-2024	07-05-2024	6362660	Registered
6.	Hemanth Kumar BM	ECE	Indian Design	14-06-2024	21-06-2024	6372128	Registered
7.	Swathi H Y	AI & ML	Indian Design	03-06-2024	14-06-2024	6351432	Registered
8.	Manjunath G, Kishor Kumar S,	CSBS/ AI &	Indian	30-09-2024	12-04-2024	432232-001	Design Accepted

	Krishnaswaroop CD, Megha H C	ML/ Civil	Design				and Published
2025							
1.	Madhushree C, Kishor Kumar S, Srivathsa Hampapura Upendra Rao, Rajani Sharma, Manu K C, Lavanya H D, Chandini M S	Civil	Indian Design	04-02-2025	28-04-2025	446675-001	Design Accepted and Published
2.	Bimba Prasad	CSE	Indian Design	30-05-2025	13-06-2025	41052163-A	Design Accepted and Published
3.	Prakash H.R., Muralidhara B, Revanna K, Yogesha K K, Hareesha M, Ram Rohit V	Mechanical	Indian Design	30-03-2025	10-07-2025	453648-001	Design Accepted and Published
4.	Harekrushana Parthasarathi Patra, Anita Dolorosa E, Sangeetha S, Kishore Kumar P K, Pradeep D G	Mechanical	Certificate of Registration for South Africa	23-12-2024	27-08-2025	2024/09962	Certificate of Registration
5.	Roopa G.S, Deekshitha K.V, Shwetha R, Pradyumna R, Adithya G.N	Mathematics	Indian Design	24-04-2025	12-05-2025	6439247	Design Accepted and Published
6.	Ravikiran H K, Jayanth J, Ashwini C, Bindu K, Shyamala C, Dileep R, Yuvarju T	ECE	Indian Design	15-09-2025	30-01-2026	473540-001	Design Accepted and Published