

Intellectual Property Rights – Patents

The following 23 patents were documented under HIVE/SRIT for 2025–2026 and are available for the IPR / IDEA Lab section of the website:

S.No	Patent Title	Faculty Inventor(s)	Status
1	Portable Electric Massager	U Elakkiya	Filed
2	Smart Grocery Container	Jebamaniraj Mala	Filed
3	Portable Electric Floor Dryer	Maran Kalpana Devi	Filed
4	Acoustic Battery Cooling System with AI-Controlled Frequency Optimization	Immanual Rajkumar	Filed
5	Visual Intelligence System for Transparent Analysis and Advanced Metal Scrap Classification	Rajkumar Immanual	Filed
6	Sun Light Tracking Solar Panel System	R. Dharmaprakash	Filed
7	Drone Chassis with Robotic Arm	Immanual Rajkumar	Filed
8	AI Based Customer Service Chatbot	Kalpana Devi M	Filed
9	Fingerprint Based Car Ignition System	Dr. S. Mary Praveena	Filed
10	Vending Based Printing Machine	Jayanthi A N	Filed
11	Fusion Holder	Immanual R	Filed
12	Smart Dustbin	Dr. S. Anila	Filed
13	Solar Still with Wiper	Immanual R	Filed
14	Coconut Holder for Image Acquisition	Immanual R	Filed
15	Mushroom Cultivation Holder	Immanual R	Filed
16	Unconventional Solutions to Nonlinear Fractional Shock Wave Equations	S. Nagarani	Published
17	A Solar Based Three-Dimensional Still	Immanual Rajkumar	Published
18	Quantum Cryptography for Secure Cloud Computing Applications	G. Sudha; S. Nagarani	Published
19	Real-Time Adaptive Traffic Flow Management Using Stochastic Mathematical Models	S. Nagarani	Published
20	Dynamic Mathematical Modeling and Simulation Platform for Epidemic Prediction and Control	S. Nagarani	Published
21	Smart Bucket Queue System	Vijayakumar Preetha	Published
22	Passive Thermal Management System Using Optimized Micro Channel Architecture	Selvan Anne Susan Georgena	Published
23	Deep Learning-Based Image Captioning Using Feedback-Augmented CNN and Ranked LSTM	Dr. Revathi B.S	Published
24	An Assistive Writing System for Children with Specific Learning Disabilities	Rajkumar Immanual	Published
25	Image Semantic Segmentation Using AI Algorithm Using Image Processing	Dr. L. Malathi	Published

26	Spiral Flow Bi-Fluid Photovoltaic Thermal Collector	Immanual Rajkumar	Granted
27	Bi-Fluid Evacuated Tube Collector	Immanual Rajkumar	Granted
28	Smart Bongo Therapy System for Autism Sensory-Motor Rehabilitation	Rajkumar Immanual	Granted
29	Floating Solar Still	Immanual Rajkumar	Granted
30	Water Tap with Lamp Holder	Immanual Rajkumar	Granted
31	Mobile Robot Chassis with Robotic Arm	N. Sanjana	Granted
32	Washroom Cleaning Robot	Sangeetha Shanmugam	Granted
33	3D Printing Machine Beam with Camera Holder	Immanual Rajkumar	Granted
34	SmartShield: Camera-Integrated Mudguard for Real-Time Tire Pressure Monitoring in Electric Vehicles	Poornima D	Granted
35	Go-Kart Chassis	Immanual R	Granted