

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai 603 110
Details of published and granted patents

Academic Year	No. of Patents Published	No of Patents Granted
2025-2026		
2024-2025	8	2
2023-2024	0	13
2022-2023	2	1
2021-2022	3	0
2020-2021		
2019-2020		1
2016-2017	1	
Total	14	17

Sl. No	Name of the Investigators	Title of the patent	Year (Published)	Reference No	Granted patents
1	Dr S Radha, Dr R Hemaltha, Dr Aasha Nandhini, Dr. R. Kishore	System and Method Thereof for Real-Time Plant Disease Detection in Agricultural Fields Using a Movable Edge-Processing Device	23/06/2025	202541060027	
2	P. S. Samlin Jeba Sharmina (JRF/ECE), C. Annadurai	Congestion Prediction in MPLS/IP Networks using Pre-Provider Edge Router Module.	30.04.2025	202541042047	
3	Dr. S. ANGEL DEBORAH, Dr. S. RADHA, Dr R Hemaltha, Dr. M. ALAGAR Dr. V. BASKARAN, SAI SHASHAANK ,VARUN S. ROSHAN	Early-Stage Red Palm Weevil Detector with Edge based monitoring	03.05.2025	202541043033	
4	Dr Muthumeenakshi K. K. VIJAYALAKSHMI, S. RADHA, B. S. SREEJA	Fabrication of a Coral-Shaped Heterojunctioned Beet Mediated Zinc Oxide Bismuth Oxide Nanocomposite Sensor for Nickel Detection in Effluent Water	07.02.2025	202541007631	
5	Dr P Vijayalakshmi Dr. SATHEESH KUMAR GOPAL Mr. P. DHANANCHEZHIAN Ms. ANUPAMA K	Wand-of-Wizard: An emulative Mechatronic device as a Powered Wheelchair Joystick control alternative	03.12.2024	202441094966	
6	Dr R Hemaltha, Dr S Radha, ACHANTA SREE RAMA SHRIYA, JEEVAHARINI K B, KRISHNA LAKSHMI S, KRITHIKA B, LALITHA K P	An Automated System and Method for Water Quality and Filter Condition Monitoring in Household RO Purifiers	14.03.2025	202541018223	
7	SHYAMALA VENKATACHALAPATHI, RADHA SHANKARARAJAN, KIRUTHIKA RAMANY	A METAL OXIDE SENSOR FOR THE DETECTION OF UREA IN MILK	26.09.2024	202441072993	

8	B SAKTHI ABIRAMI VIMAL SAMSINGH R S. ESTHER FLORENCE	INTEGRATED SENSOR SYSTEM FOR DRIVING POSTURE MONITORING AND THERMAL COMFORT ENHANCEMENT	26.09.2024	202441072991	
9	Melvin C J, Dr Radha S, Sreeja B S, Pratap Kumar	Star Shaped Compact DGS Incorporated Dual Band Planar Dipole Antenna	12.04.2021 29.04.2025	202141017150	Granted 565754
10	Dr Esther Florence S, ASP/ECE, Vimal samsingh R, ASP/Mech & Abirami A (RS/ECE)	Fabrication of multi-layered of E-textile components	31.03.2023	202341024501	
11	Vimal samsingh R, ASP/Mech, Dr Esther Florence S, ASP/ECE and Adithya K, Akash S, Ashwin A, Gautam R (students/Mech)	Wearable self-balancing, configurable mobility assistance apparatus	17.03.2023	202241026270	
12	Ms. N. Kavitha, RS/ECE; Dr. M. Gulam Nabi Alsath, ASP/ECE and Dr. S. Kirubaveni, ASP/ECE	Bandwidth Enhancement of Reflectarray Using Overlapping Tri-resonance Phase Distribution	04.11.2022 04.03.2024	202241063131	Granted 519143
13	Dr. S Ramprabhu and M Lingeshwaran (Faculty/SJCE)	Fractal Inspired Loop Elements Based 2.5-D Miniaturized Frequency Selective Surface	24.05.2022	202241029873	
14	Dr. Edna Elizabeth.N, R. Sriharini, D. Supriya, V. S Surender, S. Sneha (UG Student/ECE-(2018-2021))	IoT based Multi-Purpose Smart Fabric Curtain	18.02.2022	202241007546	
15	Dr. Esther Florence S, Sakthi Abirami (Research Scholar/ECE), Dr. Vimal Samsingh (ASP/Mech)	Finger Kinetic Cap for Parkinson's Disease Diagnosis	17.09.2021	202141040125	
16	M Gulam Nabi Alsath, S Kirubaveni, Kavitha N (Research scholar/ECE)	Frequency Agile Beam Scanning Reflectarray Antenna (RA) with an Integrated Electronic Control Board	16.09.2021 28.01.2024	202141041836	Granted 503837
17	M Gulam Nabi Alsath, S Kirubaveni Devisowjanya (Research scholar/ECE), S. Radha Y. Tusharika (UG student (Batch)/ECE)	Novel Optically Transparent UWB MIMO Antenna System: A method and device thereof	25.03.2021 26.02.2024	202141010975	Granted 515151
18	Dr. Esther Florence S, Sakthi Abirami (Research Scholar/ECE), Dr. Vimal Samsingh (ASP/Mech)	Quad Band RF shield using a mechanically configurable venetian blind structure	19.03.2021 27.05.2024	202141010951	Granted 539342
19	Dr. S. Radha, Dr.R.Selvarajan (Principal Scientist, NRCB,Trichy), Dr. R. Hemalatha, Dr.S.Aasha Nandhini (Research Associate/ECE)	A System, Device and Method for Plant Disease Detection and Alert.	13.11.2020 27.04.2023	202041047647	Granted 430222
20	Dr. S. Radha, Dr. S. Kirubaveni, Kiruthika (RS/ECE)	Multifunctional sensors for the detection of toxic gases and pipeline leakages in the sewage system	13.11.2020 22.09.2023	202041047648	Granted 453646
21	Dr. S. Radha, Dr. B. S. Sreeja, Indhu (RS), Manikandan)	One Stretch Micromachining of Microfluidic Chip with Microchannels and Micro-holes using Ultrashort Laser	13.11.2020 28.02.2024	202041047649	Granted 516691
22	Dr Esther Florence S, Harini B (UG Student/ECE(2020)), Vignesh S(UG student/CSE(2020))	Flexible Wearable Sensor for Wireless Screening of Obstructive Sleep Apnea	26.11.2019 25.04.2024	201941048258	Granted 534919
23	Dr Gulam Nabi Alsath, Dr Kirubaveni, B. Pranamika (UG 2019)	Ultra-Wideband (UWB) Reconfigurable Filtering Antenna: A Method & Device Thereof	03.08.2019 28.12.2023	201941033454	Granted 491162
24	Dr. P. Vijayalakshmi, Dr. T. Nagarajan Prof&Head/IT, Mariya Celin, T. A (Research Scholar/ECE)	Speech-input speech-output communication aid for speakers with cerebral palsy	02.08.2019 20.06.2024	201941031287	Granted 542440

25	Dr. P. Vijayalakshmi N. Naren Raju (UG student / BE EEE, 2018), Aishwarya V (PG student / ME CS 2018)	Hidden Markov model-based sign language to speech conversion system in Tamil	11.10.2018 26.03.2024	201841038594	Granted 530321
26	Dr.B.S.Sreeja, Dr.S.Radha,Indhu (RS), Manikandan)	A method of fabricating micro features in NbN superconductor using ns-pulsed laser	21.09.2018 19.12.2024	201841030305	Granted 556614
27	Dr.S.Radha, Dr.B.S.Sreeja Indhu (RS), Manikandan)	Quantifying Cholesterol Level in Human Serum using Laser Induced Breakdown Spectroscopy	21.09.2018 05.03.2024	201841030310/CHE/2018	Granted 519817
28	Dr.B.S.Sreeja, Dr.S.Radha, Joshitha (RS)	Novel 3T head actuation mechanism with low actuation voltage for bistable switching mechanism	13.10.2017 20.11.2023	201641012220	Granted 470739
29	Dr.B.S.Sreeja, Dr.S.Radha, Joshitha (RS)	Programmable semi automatic insulin delivery smart system	14/10/2019 14.03.2024	201941041455	Granted 526342
30	Dr.B.S.Sreeja, Dr.S.Radha, Padmalaya	A bio organic nanocomposite membrane for heavy metal adsorption and preparation method	13.04.2017	201741013238	
31	Dr.B.S.Sreeja, Nafiza (PG), Dr.S.Radha, Chitradevi,	Compact Mushroom Shaped Multiband Antenna with slot loaded elliptical Microstrip and improved Performance	26.06.2020 08.07.2016	201641023407	Granted 339495