

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Project Grants

S.No	Name of the Investigators	Title of the project	Funding Agency	Sanctioned Amount	Status
1.	K.Karthikeyan	Development of AI enabled integrated fall detection critical events and road condition prediction with a small heads up helmet display system	IIIT, Hyderabad	Rs.10,00,000	Ongoing (2024)
2.	Dr. K.Kavitha	Reliability Analysis of the Primary RADAR and secondary RADAR of AEW&C	DRDO	Rs 9,44,000	Ongoing (2024)
3.	Dr. S. Sasikala, Dr. M. Alagumeenakshi Mr. S. Arun Kumar	AI assisted Drone system for Effective Disease Detection and Pest Control	IEEE	Rs 2,50,000	Ongoing (2024)
4.	Dr. A. Amsaveni, Dr. M. Bharathi Ms. R. DhivyaPraba	Digital Empowerment for Rural Schools through sustainable practices	IEEE	Rs 2,50,000	Ongoing (2024)
5.	Dr. M.Bharathi	Development of Tester for Automatic Starting Unit for Aircraft from 5BRD	5BRD, Suler, Coimbatore	Rs 7,96,000	Ongoing (2024)
6.	Dr. S. Sasikala Mr. S. Arun Kumar	Empowering & Electrifying Rural School in Tamil Nadu with Photovoltaic systems	IEEE	Rs 8,27,000	Ongoing (2024)

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7.	Dr. S. Sasikala	Sustainable Classrooms for Future Generations	IEEE	Rs 8,40,000	Ongoing (2024)
8.	Dr. M. Alagumeenakshi	IV Infusion Set Mentoring and Alert System	TNSCST	Rs.7500	Completed (2023)
9.	Dr.A.Amsaveni Dr.M.Bharathi Ms.R.Dhivya Praba	Livestock Health Monitoring for Sustainable farming	IEEE HTB/SIGHT	Rs.2,17,527	Completed (2023)
10.	Dr.K.Karthika Mr.S.Arunkumar	Design of High Gain Compact Antenna for Sixth Generation Communication	IEEE-APS USRS	Rs. 2,44,955	Completed (2023)
11.	Dr. S.Sasikala, Mrs.A.Kalaiselvi Mr.S.Arunkumar,	Smart E-TRIKE with Detachable Wheels for Disabled Students to Enhance their Competency	EPICS IEEE	2600 USD	Completed (2023)
12.	Dr. S.Sasikala Dr.P.Thirumoorthi, Dr.K.Premlatha, Mr.S.Arunkumar,	Bridging Digital Inequalities amongst the Urban and Rural School Students	IEEE HAC/SIGHT	5000 USD	Completed (2022)
13.	Dr. S.Sasikala, Dr.M.Alagumeenaakshi, Mr.S.Arunkumar	An Intelligent System for Providing Natural Farming Solutions to Improve the Economy of Farmers	IEEE SPS/HAC	2000 USD	Completed (2022)

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14.	Dr.S.A.Pasupathy, Mr. R. Karthikeyan Mr.S.Karthik Mr.M.Ramesh Kumar Mr.P.Anush	Development of Autonomous Multipurpose Agricultural Robotic platform	CDAC	Rs.379.81 Lakhs (The Fund share of KCT as per Meity Rs.89.67 Lakhs)	Completed
15.	Dr.Ramalatha Marimuthu	Rehabilitation for sustainable future of Delta farmers	IEEE	\$10,000	Completed
16.	Mr. K. Ramprakash Ms.P.Pavithra	Design, Simulation and Fabrication of Microstrip Line Filters	KCT	Rs. 2.00 Lakhs	Completed
17.	Dr.S.A.Pasupathy, Dr.K.Kavitha Mrs. K.Thilagavathi	Modernization of communication and microwave laboratory with high performance PCB and antenna prototyping machine	AICTE -MODROBS	Rs. 15.04 Lakhs	Completed
18.	Dr.Ramalatha Marimuthu	Smart Agriculture for Sustainable Food Production	IEEE Special Interest Group on Humanitarian Technology	Rs.11.5 Lakhs	Completed (2017)
19.	Dr.S. Govindaraju, Dr. A. Vasuki	Wavelet based Image Compression/De-compression with pipelined architecture on FPGA	ISRO – RESPOND	Rs. 5.18 Lakhs	Completed (2012)
20.	Dr.S. Govindaraju, Dr . K. Kavitha	FPGA Based Single Chip Implementation of AES (RIJNDAEL ALGORITHM) Encryption and Decryption with Error Correction	DRDO	Rs. 6.60 Lakhs	Completed (2011)

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21.	Dr.S. Govindaraju, Dr. A. Vasuki	Hardware Implementation of Image Enhancement Using Wavelet / Retinex Algorithms	ISRO – RESPOND	Rs. 4.50 Lakhs	Completed (2011)
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22.	Dr. A. Vasuki Dr . K. Kavitha	Iterative Detection – Decoding in OFDMA Systems for Multimedia Transmission	AICTE-RPS	Rs. 2.50 Lakhs	Completed (2010)
23.	Dr. Rajeswari Mariappan, Dr. D. Mohanageetha	Modernization of Optical Communication Laboratory with Photonic Design Automation Software	AICTE MODROBS	Rs. 11.00 Lakhs	Completed (2009)
24.	Mr. K. Ramprakash Dr. D. Mohanageetha	Investigation of the suitability of clay/ceramic material for use inside the microwave oven	RUTAG (IIT Chennai)	Rs. 0.17 Lakhs	Completed (2009)
25.	Dr. M. Shanthi,	Design, Implementation and simulation of Analog Integrated Circuits using Genetic Algorithm	KCT	Rs. 0.50 Lakhs	Completed (2008)
26.	Dr. R.Latha, Mr. P.Thirumoorthy	DSP Based Filter Design for Harmonic Minimization in Power Converters and Area Optimization in Communication Devices	KCT	Rs. 2.00 Lakhs	Completed (2008)
27.	Dr. A. Vasuki, Professor	JPEG2000 Implementation on DSP Processor TMS320C6713	KCT	Rs. 1.00 Lakhs	Completed (2007)
28.	Dr. Muthuraman Ramasamy, Mr. K. Ramprakash	Modernization of Microwave Lab incorporating the Integrated circuit Technology	AICTE MODROBS	Rs. 3.40 Lakhs	Completed (2002)