



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Research Projects (Applied / Sanctioned)

2022-2023

| S. No | Title of the Proposal / Project Work | Funding Agency | Investigator (s) | Project Value (INR) | Current Status |
|-------|---|------------------------|--|---------------------|------------------|
| 1. | AI Assisted Integrated System for Organic Precision Farming | DBT - S&T | Dr.C.Gnana Kousalya Dr.G.Rohini Dr P G V Ramesh Dr M V Karthikeyan Dr.S.Tephillah Dr M Senthil Murugan Mr.K.Immanuel Mr.A.Dinesh Kumar | Rs.47,08,895 | Under Evaluation |
| 2. | Sensor Fusion to detect and prevent collision of Vehicles | SERB Power | Dr.C.T.Kavitha Dr.Jeba Johannah Samuel | Rs.24,34,200 | Under Evaluation |
| 3. | Early Prediction of Forest Fire using SEETKAM WSN and IoT | TNSCST-STP | Dr.C.Gnana Kousalya Dr.G.Rohini | Rs 3,75,000* | Under Evaluation |
| 4. | Artificial Intelligence based Unmanned Ground Vehicle with WiMAX for Antiterrorism | TN-CM - Research Grant | Dr.C.Gnana Kousalya Dr.G.Rohini Dr.S.Tephillah Mr.Raghul | Rs.17,61,626 | Under Evaluation |
| 5. | Fabrication of Optical Nano biosensor for climate change analysis | SERB - CRG | Dr.C.Gnana Kousalya Dr.G.Rohini Dr.G.S.Uthyakumar Dr.C.Mohan | Rs.53,29,000 | Under Evaluation |
| 6. | Optimization Analysis on amplifier use for Optical Communication systems through Machine Learning Approach and Evaluation of Wireless -Optical Interface Issues | SERB - MATRICS | Dr.P.G.V.Ramesh | Rs.6,00,000 | Under Evaluation |

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| 7. | On Design and Investigations of Filt-antenna for Future 5G/6G mm-Wave Applications | TNSCST-STP | Dr.P.G.V.Ramesh Dr.Samayaraj Murali Kishan Lal Dr.M.V.Karthikeyan | Rs.3,68,000* | Unser Evaluation |
| 8. | Recreating the frequency domain properties for underwater communication | TNSCST - SPS | Mr. Immanuel K Mohamed Irfan A Louis Santosh K | Rs.7,500 | Granted |
| 9. | AI based robots in farm harvesting | DBT M-S&T | Dr.G.S.Uthayakumar Dr B P Bhuvana | Rs.32,55,200 | Under Evaluation |
| 10. | Genetic Circuit for Type-2 Diabetes and its diagnostic method | DBT M-S&T | Dr.G.S.Uthayakumar Dr B P Bhuvana Mr.D.Suresh Mr.T.Siva Mrs.Sreedevi B Mrs.Silva Dhenna J | Rs.19,96,000 | Under Evaluation |
| 11. | Indian Medicinal Plants with Antidiabetic Potential | DBT M-S&T | Dr. Uthayakumar G S (Multi Institute) | Rs.32,95,000 | Under Evaluation |
| 12. | Safety Device to protect Woman in Danger | TNSCST-STP | Dr.Jeba Johannah Samuel Dr.C.T.Kavitha | Rs.2,50,000* | Under Evaluation |
| 13. | Lightweight Secret Key Generation and Key Agreement technique using Electrocardiogram Signal for Implantable Medical Devices | SERB - SURE | Dr.M.V.Karthikeyan | Rs.22,06,587 | Under Evaluation |

2021-2022

| S. No | Title of the Proposal / Project Work | Funding Agency | Investigator (s) | Project Value (INR) | Current Status |
|-------|---------------------------------------|------------------------|--|---------------------|----------------|
| 1. | Passageway Devices of Fishing Vessels | MSME Innovative Scheme | Dr. C. Gnana Kousalya Ms.Baby Nivetha Ms.Blessy Esther | Rs.12,50,000 | Granted |
| 2. | Women Safety Night Patrolling Robot | TNSCST-SPF | Dr. C. Gnana Kousalya | Rs 7,500 | Granted |

2019-2020

| S. No | Title of the Proposal / Project Work | Funding Agency | Investigator (s) | Project Value (INR) | Current Status |
|-------|---|----------------|---------------------|---------------------|----------------|
| 1 | Versatile Insole Monitoring System | TNSCST-SPF | Dr.C.Gnana Kousalya | Rs.7,500 | Granted |
| 2 | Smart insole - unobtrusive vitality monitoring system | IEEE-SPF | Dr.C.Gnana Kousalya | Rs 3,000 | Granted |

2017-2018

| S. No | Title of the Proposal / Project Work | Funding Agency | Investigator (s) | Project Value (INR) | Current Status |
|-------|--|-------------------------------|------------------------------------|---------------------|--------------------------|
| 1 | Smart Kitchen with Inventory Managing and Monitoring using IoT | IEEE-Madras - Student Project | Mr.V.R.Balaji | Rs 10,000 | Granted May-18 |
| 2 | CCTV Installation | (PMKVY)-ESDP | Dr.C.Gnana Kousalya Dr.G.Rohini | Rs.3,82,500 | Granted |