

## Department of CSE

### Funded Projects List 2023-2024

#### External - Faculty

| S. No. | PI/ Co-PI                                                                                                                                                                                         | Title of the Project                                                                                                                                                                                                                                | Sponsored Agency | Duration & Sanctioned Year | Sanctioned Amount (in Rupees) |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|-------------------------------|
| 1      | Dr. R. Kanchana, SSNCE, Chennai (Co-PI),<br>Dr. Alpana Mishra, KIMS, Odisha (PI)<br>Dr. Manoj K Das, The INCLEN Trust International, New Delhi (Co-PI),<br>Dr. S. Selvakumar, NIT, Trichy (Co-PI) | Convergence and integration of programmes and leveraging technology for enabling healthcare teams for delivery of equitable, high-quality primary healthcare service through Health and wellness Centres (CONVERTECH-HWSs) in Jagatsinghpur, Odisha | ICMR, New Delhi  | 3 years & 19/02/2024       | 1,24,34,404 (for one year)    |

#### Internal - Faculty

| S. No. | PI/ Co-PI                                                         | Title of the Project                                                                                                              | Sponsored Agency | Duration & Sanctioned Year | Sanctioned Amount (in Lakhs) |
|--------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|------------------------------|
| 1      | Dr. P. Mirunalini,<br>Dr. R. Kanchana and<br>Dr. R. Priyadharsini | Myocardial Infarction Detection from ECG using Deep Learning Techniques                                                           | SSN Trust        | 2 Years & 01.12.2023       | 0.50                         |
| 2      | Dr. S. M. Dhannya, Ms.Nilu R.Salim and<br>Mr.S.Raghavendra Kumar  | Aiding the real-time surface navigation of drones during landing phase on unknown surfaces using deep learning algorithms on FPGA | SSN Trust        | 2 Years & 01.12.2023       | 2.0                          |

#### Internal – Faculty & Students

| S. No. | Name and Year of the Student(s)                      | Project Guide(s)         | Title of the Project              | Duration  | Sanctioned Amount (in Rupees) |
|--------|------------------------------------------------------|--------------------------|-----------------------------------|-----------|-------------------------------|
| 1      | Prithivirajan D<br>Rishab S<br>Tarunraj R<br>II year | Dr. K.R. Sarath Chandran | Gesture Controlled Smart Suitcase | 12 Months | 20000                         |

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|----|-------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------|-------|
| 2  | Apurva Narayan<br>Olirva M<br>Charumathi P<br>III year                                          | Dr. K.R.<br>Sarath<br>Chandran  | Prototyping a Graph-Based Approach for Efficient Vehicle Tracking in a Cluster Controlled CCTV Surveillance systems | 12 Months | 23000 |
| 3  | Rohith Arumugam S<br>Samah Syed<br>Muhammed Aadhil A<br>Abishna A<br>Mathavaroopan S<br>II year | Dr. V.<br>Balasubramanian       | Smart Power Consumption Monitoring System                                                                           | 12 Months | 18000 |
| 4  | Srivathsan S<br>Harikumar G<br>Rajesh G<br>II year                                              | Dr. K. R.<br>Sarath<br>Chandran | Wall Cleaning Robot For High Rise Building                                                                          | 12 Months | 23000 |
| 5  | Vaidhegi D<br>Rajasekar<br>Srilakshmisai K<br>Sruthi R<br>III year                              | Dr. S.<br>Rajalakshmi           | Speech-Enabled Server Robots for Restaurants                                                                        | 12 Months | 27000 |
| 6  | Dharunika S<br>Hemalatha R<br>Vishnu Praba A J<br>Vijay Srinivas S<br>II year                   | Dr. S. Angel<br>Deborah         | Detection of Dust on High-rise Building Glass Walls and Visualization using Quadcopter                              | 12 Months | 25000 |
| 7  | Raghul Yadhav K<br>III year<br>Harine Cellam N S<br>Nandhine A<br>II year                       | Dr. K.R.<br>Sarath<br>Chandran  | VR System for Interior Design                                                                                       | 12 Months | 32000 |
| 8  | Ranjit Kumar G<br>II year<br>Dilfina D<br>III year                                              | Dr. S. Angel<br>Deborah         | AI-Enabled Smart Irrigation System for Precision Farming and Water Resource Management                              | 12 Months | 28000 |
| 9  | Sitaraman A<br>Nikhil Narayanan S<br>Anandharaj D<br>Hannah<br>II year                          | Dr. S. V.<br>Jansi Rani         | IoT based Water Quality Monitoring System for Aquaculture                                                           | 12 Months | 24000 |
| 10 | Rohan Ravi Kumar<br>Aswathy AR<br>Shaun Allam H<br>V Vijay Karthick<br>II year                  | Dr. K.R.<br>Sarath<br>Chandran  | Smart Automatic Windshield Wiper with Dust Detection                                                                | 12 Months | 21000 |
| 11 | S Jagrath Mithun<br>K Harish<br>Deepak M<br>II year                                             | Dr. T. T.<br>Mimalinee          | Navigation System for Vertical Glass Cleaning Robot                                                                 | 12 Months | 24000 |
| 12 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdiananth M<br>Pranav CM<br>II year               | Ms. S.<br>Lakshmi<br>Priya      | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control                       | 12 Months | 15000 |

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|----|---------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------|-----------|-------|
| 13 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdianth M<br>Pranav CM<br>II year             | Ms. S.<br>Lakshmi<br>Priya | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control | 12 Months | 15000 |
| 14 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdianth M<br>Pranav CM<br>II year             | Ms. S.<br>Lakshmi<br>Priya | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control | 12 Months | 15000 |
| 15 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdianth M<br>Pranav CM<br>II year             | Ms. S.<br>Lakshmi<br>Priya | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control | 12 Months | 15000 |
| 16 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdianth M<br>Pranav CM<br>II year             | Ms. S.<br>Lakshmi<br>Priya | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control | 12 Months | 15000 |
| 17 | Nandhalal S<br>Prashanna Kumar S<br>Micheal Berdianth M<br>Pranav CM<br>II year             | Ms. S.<br>Lakshmi<br>Priya | Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control | 12 Months | 15000 |
| 18 | Varun S. Roshan<br>IV year<br>Harsh Pratap Singh<br>Charan<br>Balakrishnan<br>Dhinesh Ram K | Dr. S. Angel<br>Deborah    | Red Weevil detection using sound detection                                                    | 10 Months | 22000 |
| 19 | Krithik Sathya M<br>Aasish M<br>Fabrizio J<br>Naveed Buhari<br>III year                     | Dr. B.<br>Prabavathy       | Human Following Smart Trolley With Barcode Scanner                                            | 12 Months | 12000 |

### First Year – CSE Students & Faculty

| S. No. | Name and Year of the Student(s)                                 | Project Guide(s)               | Title of the Project                           | Duration  | Sanctioned Amount (in Rupees) |
|--------|-----------------------------------------------------------------|--------------------------------|------------------------------------------------|-----------|-------------------------------|
| 1      | V. Arvind<br>J. Harish<br>Amudhakavi<br>Akshith<br>Vishwanathan | Dr. R. Kanchana<br>ASP/CSE     | IoT-based Continuous Glucose Monitoring System | 12 Months | 28000                         |
| 2      | S. Faatina                                                      | Dr. S. M.<br>Dhannya<br>AP/CSE | Interactive AI-based Career Counselling Tool   | 12 Months | 18000                         |

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|----|---------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------|-----------|-------|
| 3  | T. Mehanth                                                                | Dr. T. T. Mirmalinee<br>Prof./CSE  | IOT based intelligent system to detect the medicinal plants from the environment | 12 Months | 25000 |
| 4  | Sandhya Giribabu<br>Shinigdapriya Sathish<br>Vidarshanaa<br>Saravanavel   | Dr. J. Bhuvana<br>ASP/CSE          | Smart Navigation Assistance for the Visually Impaired                            | 12 Months | 24000 |
| 5  | Sathvika Kamali<br>Shankar<br>B. Saathviga<br>Sharan Rajesh               | Dr. S. V. Jansi<br>Rani<br>ASP/CSE | Women Safety Device                                                              | 10 Months | 21000 |
| 6  | M. Saipranav<br>V. Yadushree                                              | Dr. V. Balasubramaniam<br>ASP/CSE  | Blockchain based media verification system                                       | 12 Months | 10000 |
| 7  | P. Vettri Chezian<br>S. Kamesh<br>Dileep Ram                              | Dr. R. Kanchana<br>ASP/CSE         | Safe Strive Wearable                                                             | 12 Months | 26000 |
| 8  | Harsh Agarwal<br>M. Mithun Kishore<br>B. Prasana                          | Dr. S. Rajalakshmi<br>AP/CSE       | Environment Monitoring and Disaster Management Using Drone                       | 12 Months | 27000 |
| 9  | Gopika Ganesan<br>L.V. Harini<br>Nandhika Saravanan                       | Dr. R. Priyadharsini<br>ASP/CSE    | Elevating Security beyond the Visible Spectrum                                   | 12 Months | 20000 |
| 10 | M. Irfana<br>Priya Verma<br>Shubham Kumar                                 | Dr. Chitra Babu<br>Prof./CSE       | Stress Detection in Students by analyzing sleep patterns                         | 12 Months | 8000  |
| 11 | A. Akash<br>R. Arjun<br>Olin Jeremiah Pierson                             | Dr. T. M. Rajalaxmi<br>Mathematics | Burning Number of Certain Interconnection Networks                               | 12 Months | 10000 |
| 12 | Mahima<br>Bhavana<br>M. Lakshaya                                          | Dr. B. Bharathi<br>ASP/CSE         | Development of multilingual smart scanner pen for visually impaired people       | 12 Months | 15000 |
| 13 | K. Chandraprakash                                                         | Dr. V. Tamilmani<br>Chemistry      | Synthesis of Lead-Free Inorganic Halide Phosphors for Night Vision Imaging       | 12 Months | 35000 |
| 14 | Adline J Elizabeth<br>K. Anishka<br>Abhimanyu<br>Srinivasan               | Dr. B. Bharathi<br>ASP/CSE         | Device to check for harmful chemicals in fruits and vegetables                   | 12 Months | 8000  |
| 15 | S. B. Balamurugan<br>D. Pranav<br>V.S. Rahul<br>S. Rohith Kumar           | Dr. S. Angel<br>Deborah<br>AP/CSE  | Red Weevil detection using image detection                                       | 10 Months | 20000 |
| 16 | Tanisha Sriram<br>Sowmya Anand<br>Shriya Alladi<br>Shrika Thota           | Dr. B. Bharathi<br>ASP/CSE         | Sign Language Translator                                                         | 12 Months | 24000 |
| 17 | Mahadev Ramesh<br>Ramya K.S.<br>Keshav<br>K.Vigneshar<br>Anirudh Velupala | Dr. S. Mohanavalli<br>ASP/IT       | Classification of Leaf diseases                                                  | 12 Months | 5000  |
| 18 | D. Gabriel Prince<br>K. Kharihara Sudhan<br>M.P. Arjun                    | Dr. R. Kanchana<br>ASP/CSE         | IoT based Health Monitoring System                                               | 12 Months | 28000 |

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| 19 | Kushaal Shyam Potta<br>V.A. Praneeth<br>M. Hema Varshni | Dr. V. Arulkumar<br>AP/IT   | Improve Tourist<br>Experience by generative<br>AI                                                                                   | 30 Months | 28000 |
| 20 | S. Ramcharan                                            | Dr. M. Srinivasan<br>SSN RC | Investigation of the Effects<br>of Pre-annealing on the<br>Impurity Concentration in<br>mc-Si Wafers for Solar Cell<br>Applications | 24 Months | 32000 |