

### Ongoing Research Project Details of ECE Department (2019 to Feb 2022)

| Sr. No. | Project Coordinators               | Project Title  | Funding Agency/ Dept  | Project Cost   | Project Start Date | Project Expected End Date |
|---------|------------------------------------|--|---|----------------|--------------------|---------------------------|
| 1.      | Prof. Binod Kumar Kanaujia         | Design and Development of Biologically Inspired Retinal Prosthesis Based Biomedical Implant to Restore Vision to the Blind                             | Science Grant Scheme of SERB, Government of India                 | Rs. 23.28 Lacs | March 2022         |                           |
| 2.      | Dr Arun Khosla                     | Development and Evaluation of Virtual Reality Interventions for Improving Cognitive and Vocational Skills in individuals with Autism Spectrum Disorder | Higher Education Funding Agency (HEFA) under their CSR Initiative | 10.00 Lacs     | Nov 2021           | Nov 23                    |
| 3.      | Dr Arun Khosla                     | Strengthening Ridge to Valley based NRM planning under Mission Water Conservation using Geospatially enabled Serious Gaming                            | ISRO  | 4.5 Lacs       | February 2020      | February 2022             |
| 4.      | Dr R. K. Sunkaria                  | Design and Development of Robust Entropy based Technique for Computer aided Heart Health Diagnosis   | DST SERB  | 40.44 Lacs     | May 2019           | May 2022                  |
| 5.      | Dr Ashish Raman<br>Dr Mamta Khosla | FPGA based High Speed CCSDS Processor for Baseband Receiver  | ISRO  | 15.90 Lacs     | February 2020      | February 2022             |
| 6.      | Dr Ashish Raman                    | Modeling and analysis of quantum Effect for Sub- 10 node Nanowire based devices  | SERB, DST   |                | 2021               | 2024                      |
| 7.      | Dr Nitesh Kashyap                  | Design & Development of RF and Microwave Components  | ISRO  | 14.5 Lacs      | 2020               |                           |
|         |                                    | Modelling and Simulation of Antenna Control Servo System   | ISRO-CBPO-S-TIC   | 7.5 Lacs       | 2020               |                           |
| 8.      | Dr S. K. Awasthi                   | Development of NavIC based Asset Tracking System   | ISRO  | 21 Lacs        | March 15,2020      | December 15,2022          |

|     |                    |   |           |               |                |                   |
|-----|--------------------|---|-----------|---------------|----------------|-------------------|
| 9.  |                    | Design and development of D-sub miniature space grade connectors for space applications | ISRO      | 24 Lacs       | March 15, 2020 | December 15, 2022 |
| 10. | Dr Pawan K. Verma  | Development of NavIC based Asset Tracking System  | ISRO      | 21 Lacs       | March 15,2020  | December 15,2022  |
| 11. |                    | Design and development of D-sub miniature space grade connectors for space applications | ISRO      | 24 Lacs       | March 15, 2020 | December 15, 2022 |
| 11  | Dr Sukwinder Singh | Design and Development of RF and Microwave Components                                   | ISRO STIC | Rs. 14.5 Lacs | March 2020     | March 2022        |

### Patent Granted:

Title: **Safety Device for Women for Instant Prevention of Bad Touch**

Investigators: Dr. Indu Saini, and Dr. Neetu Sood

Date of Grant: 08 November 2021