



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ECE R & D CENTER**  
**(Affiliated by VTU)**  
**PhD REGISTRATIONS**

The ECE department has an R & D Centre affiliated by Visvesvaraya Technological University (VTU). The R & D Centre is empowered with **3 Research Guides** and **13 Research Scholars**, actively engaged in research in the areas of Electronics and Communication Engineering, Signal Processing, Cryptography, Machine Learning and VLSI Technologies. The R & D Lab is well equipped with Wi-Fi facility with un-interrupted power supply.

**Ph.D. Awarded under ECE R & D Centre, KSIT, Affiliated to VTU**

| Sl. No. | Year of Completion | Name of Scholar   | Guide              | Title                                                                                                                          |
|---------|--------------------|-------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1       | July 2020          | Mrs. Rekha N      | Dr. Fathima Jabeen | Noise cancellation in GSM logical channel using search algorithm                                                               |
| 2       | Oct 2020           | Mrs. Devika B     | Dr. P N Sudha      | Optimization of power in Adhoc networks                                                                                        |
| 3       | Mar 2022           | Mrs. Prathima B A | Dr. P N Sudha      | Development of measurement algorithms and communication protocols for automated inspection in closed loop manufacturing system |

**Ph.D. Registrations under ECE R & D Centre, KSIT, Affiliated to VTU**

| Sl. No. | Year of Registration     | Name of Scholar       | Guide                  | Title                                                                                                                    |
|---------|--------------------------|-----------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1       | 2014-15                  | Mrs. Sri Vidya L      | Dr. P N Sudha          | Enhancing highly efficient joint source & channel coding techniques for wireless communication                           |
| 2       | 2015-16                  | Mrs. Hazel Philbert   | Dr. Shanthi Prasad M J | FPGA based SOC-NOC Universal Bus Bridge                                                                                  |
| 3       | 2015-16                  | Mrs. Sangeetha V      | Dr. P N Sudha          | A novel approach to minimize the effect of fading using adaptive channel coding and multi carrier modulation techniques  |
| 4       | 2015-16                  | Mr. Lakshmi H R       | Dr. B Surekha          | Content protection of digital images through lossless watermarking                                                       |
| 5       | 2016-17                  | Mrs. Jayasudha B S K  | Dr. P N Sudha          | Embedding smart power aware biosensors for monitoring, communicating and multiscale processing of physiological signals  |
| 6       | 2016-17                  | Mrs. Sahana Salagare  | Dr. P N Sudha          | Design and development of auto charging System for wireless sensor node used in underwater sensor node                   |
| 7       | Reregistered in Jan 2022 | Mr. Santosh Kumar B R | Dr. Manju V C          | Development of customized platform for heterogeneous low power motes using CONTIKI to build remote applications          |
| 8       | 2016-17                  | Mrs. Renuka V Tali    | Dr. B Surekha          | Intelligent white blood cells classification in microscopic blood smear images using optimum machine learning techniques |

|    |         |                        |                 |                                                                                         |
|----|---------|------------------------|-----------------|-----------------------------------------------------------------------------------------|
| 9  | 2016-17 | Mr. S Christo Jain     | Dr. Manju VC    | Real time smart WPT system for small scale application using aerial Projector           |
| 10 | 2016-17 | Mr. Venkata Kranthi B  | Dr. B Surekha   | Human tracking and re-identification for automation of video surveillance systems       |
| 11 | 2018-19 | Mrs. Ambika Annavarapu | Dr. B Surekha   | Intelligent classification of satellite images using hybrid machine learning techniques |
| 12 | 2018-19 | Mr. Chandra Naik G     | Dr. B Sudarshan | Hybrid encryption technique for enhancement of image security                           |
| 13 | 2020-21 | Mr. Sunil Kumar G R    | Dr. B Surekha   | Development of Secure System for Intellectual Property Protection in Theaters.          |

### **Status of Research Scholars in ECE R & D centre**

| Sl. No. | Guide                  | Name of the Research Scholar | Year of Registration     | Course Work [Y/N] | Comprehensive Viva [Y/N] | Submitted Final Thesis [Y/N] | PhD Awarded |
|---------|------------------------|------------------------------|--------------------------|-------------------|--------------------------|------------------------------|-------------|
| 1       | Dr. Fathima Jabeen     | Mrs. Rekha N                 | Mar2014                  | Y                 | Y                        | Y                            | Y           |
| 2       | Dr. P N Sudha          | Mrs. Devika B                | Dec 2014                 | Y                 | Y                        | Y                            | Y           |
| 3       | Dr. P N Sudha          | Mrs. Sri Vidya L             | Dec 2014                 | Y                 | Y                        | N                            | N           |
| 4       | Dr. Shanthi Prasad M J | Mrs. Hazel Philbert          | Dec 2015                 | N                 | N                        | N                            | N           |
| 5       | Dr. P N Sudha          | Mrs. Sangeetha V             | Dec 2015                 | Y                 | Y                        | N                            | N           |
| 6       | Dr. P N Sudha          | Mrs. Prathima B A            | Dec 2015                 | Y                 | Y                        | Y                            | Y           |
| 7       | Dr. B Surekha          | Mrs. Lakshmi H R             | Dec 2015                 | Y                 | Y                        | N                            | N           |
| 8       | Dr. P N Sudha          | Mrs. Jayasudha B S K         | Jan 2017                 | Y                 | Y                        | N                            | N           |
| 9       | Dr. P N Sudha          | Mrs. Sahana Salagare         | May 2017                 | Y                 | Y                        | N                            | N           |
| 10      | Dr. Manju V C          | Mr. Santhosh Kumar B R       | Reregistered in Jan 2022 | N                 | N                        | N                            | N           |
| 11      | Dr. B Surekha          | Mrs. Renuka V Tali           | Jan 2017                 | Y                 | Y                        | N                            | N           |
| 12      | Dr. Manju V C          | Mr. S Christo Jain           | Jan 2017                 | Y                 | Y                        | N                            | N           |
| 13      | Dr. B Surekha          | Mr. Venkata Kranthi B        | Jan 2017                 | Y                 | Y                        | N                            | N           |
| 14      | Dr. B Surekha          | Mrs. Ambika Annavarapu       | Mar 2019                 | Y                 | Y                        | N                            | N           |
| 15      | Dr. B Sudarshan        | Mr. Chandra Naik G           | June 2019                | N                 | N                        | N                            | N           |
| 16      | Dr. B Surekha          | Mr. Sunil Kumar G R          | Mar 2021                 | N                 | N                        | N                            | N           |