# Ph.D. Research Center

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

### About PICT Research Center:

The department's research center was established in the year 2012 under Savitribai Phule Pune University (SPPU) for the faculty of Electronics and Telecommunication Engineering, Pune. The research center aims to conduct high-quality academic and applied research and provide support for effective exploration and development of quality research work. The research center is well-equipped with high configuration systems with internet connectivity and access to digital resources like eBooks, eJournal,.etc. The research scholar undertakes research in various fields like Wireless Communication, Antenna, Adaptive, Smart Antennas, Cognitive Radio, Image Processing, Network Security / Information Security, Computer Network/ Communication Network, Internet Traffic Modelling, Mechatronics, Devices and Circuits, Biomedical Signal and Image Processing Data Science, Machine learning, Cloud Computing, etc.

### Admission Data

| S. No. | Admission Year | Admitted Candidates | PhD Status |
|--------|----------------|---------------------|------------|
| 1 | AY:2014-15 | **2** | **Completed** |
| 2 | AY:2016-17 | **1** | **In process** |
| 3 | AY:2020-21 | **3** | **In process** |
| 4 | AY:2021-22 | **2** | **In process** |
| 5 | AY:2023-24 | **8** | **In process** |

### 1. Guide Vacancies (2024-2025):

| Sr. No. | Name of the Research Guide | Approved No. of Seats | Presently Vacant Seats | Present admission status | | | | | | | |
|---------|----------------------------|-----------------------|------------------------|------|-----|----|----|-------|-----|-----|-------|
| | | | | Open | EWS | SC | ST | DT/NT | OBC | SBC | Total |
| 1. | Dr. S. T. Gandhe | 8 | 5 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| 2. | Dr. Y. Ravinder | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3. | Dr. G. S. Mundada | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4. | Dr. R. Sreemathy | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5. | Dr. M. V. Munot | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6. | Dr. S. K. Moon | 6 | 1 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 5 |
| 7. | Dr. R. C. Jaiswal | 6 | 2 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 4 |

| | SOCIETY FOR COMPUTER TECHNOLOGY & RESEARCH'S |
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| | PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE 411043 |

# Ph.D. Research Center

### 2. List of the Research Scholars Ph.D. Awarded:

| Sr. No. | Name of the Research Scholar | Date of Admission | Category | Name of Research Guide | Current Status |
| --- | --- | --- | --- | --- | --- |
| 1 | Vaibhav B. Vaijapurkar | AY:2014-15 | Open | Dr. Y. Ravinder | Completed |
| 2 | Rajendra G. Yelalwar | AY:2014-15 | NT | Dr. Y. Ravinder | Completed |

### 3. List of the Research Scholars Ph.D. Ongoing:

| Sr. No. | Name of the Research Scholar | Date of Admission | Category | Name of Research Guide | Current Status |
| --- | --- | --- | --- | --- | --- |
| 1 | Sushant J Pawar | AY:2016-17 | Open | Dr. S. T. Gandhe | Pre-submission Seminar completed and submitted to SPPU in July 2024 |
| 2 | Priya Sunil Sawant | AY:2020-21 | Open | Dr. R. Sreemathy | Completed six Half-yearly PhD progress presentations. Publications: 01 journal & 02 conference papers |
| 3 | Vaishali U. Gongane | AY:2020-21 | Open | Dr. M. V. Munot | Completed six Half-yearly PhD progress presentations. Publications: 02 journal & 04 conference papers |
| 4 | Seema A. Bhalgaonkar | AY:2020-21 | Open | Dr. M. V. Munot | Completed six Half-yearly PhD progress presentations. Publications: 01 journal & 03 conference papers |
| 5 | Nitesh H. Shenare | AY:2021-22 | Open | Dr. S. K. Moon | Completed three Half-yearly PhD progress presentations. |
| 6 | Shahadev D. Hake | AY:2021-22 | NT | Dr. R. C. Jaiswal | Completed three Half-yearly PhD progress presentations. |
| 7 | Amol Sukhadeorao Ingole | AY:2023-24 | SC | Dr. S. K. Moon | Completed first Half-yearly PhD progress presentations. |
| 8 | Ananya Ajay Gawari | AY:2023-24 | ST | Dr. R. C. Jaiswal | Completed first Half-yearly PhD progress presentations. |
| 9 | Asha Rahul Digge | AY:2023-24 | SBC against Open | Dr. S. K. Moon | Completed first Half-yearly PhD progress presentations. |
| 10 | Ashwini Rajendra Deshmukh | AY:2023-24 | Open | Dr. M. V. Munot | Completed first Half-yearly PhD progress presentations. |
| 11 | Shriram Mulla Madavi | AY:2023-24 | ST against Open | Dr. S. K. Moon | Completed first Half-yearly PhD progress presentations. |
| 12 | Suhas Mahadeo Patil | AY:2023-24 | Open | Dr. R. C. Jaiswal | Completed first Half-yearly PhD progress presentations. |
| 13 | Aishwarya R. Gangajaliwale | AY:2023-24 | Open | Dr. R. C. Jaiswal | Completed first Half-yearly PhD progress presentations. |
| 14 | Prachiti Charade | AY:2023-24 | OBC | Dr. S. K. Moon | Completed first Half-yearly PhD progress presentations. |

**4. List of the Research Scholars Ph.D Topic Approved:**

| Sr. No. | Name of the Research Scholar | Research Guide | Topic Approved |
|---|---|---|---|
| 1 | Sushant J Pawar | Dr. S. T. Gandhe | Enhancement of moving object detection in synthetic aperture Radar Imagery for Surveillance |
| 2 | Priya S. Sawant | Dr. R. Sreemathy | Medical Image Analysis, Detection and Classification of Pulmonary Infections Using Machine Learning Approaches |
| 3 | Vaishali U. Gongane | Dr. M. V. Munot | AI based framework for analysis, detection and moderation of social media content. |
| 4 | Seema A. Bhalgaonkar | Dr. M. V. Munot | Development of a Framework for Visual Pattern Recognition Network (VPRN) Model Compression |
| 5 | Nitesh H. Shenare | Dr. S. K. Moon | Steganography and Stegoanalysis Using Digital Forensic Approach for Cyber Security |
| 6 | Shahadev D. Hake | Dr. R. C. Jaiswal | Design and Analysis of Circularly Polarized Microstrip MIMO Antenna |
| 7 | Amol S. Ingole | Dr. S. K. Moon | Application of radical steganography technique to enhance security, confidentiality, and authentication of secret data. |
| 8 | Ananya A. Gawari | Dr. R. C. Jaiswal | Design and analysis of novel power factor correction technique for power converter. |
| 9 | Asha R. Digge | Dr. S. K. Moon | Enhancing Information Security and its Authentication with Multimodal Biometric System. |
| 10 | Ashwini R. Deshmukh | Dr. M. V. Munot | Artificial Intelligence based models for Sound design pertaining to foley effects. |
| 11 | Shriram M. Madavi | Dr. S. K. Moon | An investigation security model for Internet of Things using intrusion detection technique. |
| 12 | Suhas M. Patil | Dr. R. C. Jaiswal | Digital watermarking framework for medical imaging (rechanged topic tile & approval pending ) |
| 13 | Aishwarya R. Gangajaliwale | Dr. R. C. Jaiswal | Investigation on power converter for electric vehicle application. |
| 14 | Prachiti A. Charade | Dr. S. K. Moon | Breast Cancer Detection and Analysis Using Fractal Features and Machine Learning Approach. |