



**KJ'S EDUCATIONAL INSTITUTES**  
**TRINITY COLLEGE OF ENGINEERING AND RESEARCH PUNE**

(Accredited by NAAC with A+ Grade Approved by AICTE & Affiliated to SPPU, Pune)

Sr. No. 25 & 27, Near. Khadi Machine Chowk, Kondhwa Annexe, Pune-48, Maharashtra

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**Patents: -**

| Sr No. | Author Name                                                                                                                                                                              | Patent no.   | Patent Information                                                                                      | Publication Date |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------|------------------|
| 1      | Prof. J.V. Satre                                                                                                                                                                         | 202321032928 | Patent filed and published on Impact of Generation Mix (Renewable Energy) on the Power System Stability | 16.06.2023       |
| 2      | Prof. J.V. Satre                                                                                                                                                                         | 202321033189 | Patent filed and published on Automatic Drip Irrigation System by Using PLC                             | 16.06.2023       |
| 3      | Prof. J.V. Satre                                                                                                                                                                         | 202221047150 | Patent filed and published on Reactive power assessment with and without Electrical Vehicle Charging    | 16.09.2022       |
| 4      | Prof. Sachin V Tayade                                                                                                                                                                    | 402278-001   | Power system stabilizing Apparats                                                                       | 09.02.2024       |
| 5      | Prof. Prasad R Phad                                                                                                                                                                      | 399199-001   | Device for fire suppression and emergency exit for bus                                                  | 18.04.2025       |
| 6      | 1. Dr. Jayshree Satre<br>2. Prasad Phad<br>3.Dhiraj Tikar<br>4.Punam Chabukswar<br>5.Pramila Bhagawat<br>6. Tanjila Tamboli<br>7. Prasanna Pothi<br>8. Manoj Kharade<br>9. Sachin Tayade | 482969-001   | Thermoelectric Water Cooler                                                                             | 07.12.2025       |
| 7      | 1. Dr. Jayshree Satre<br>2. Prasad Phad<br>3.Dhiraj Tikar<br>4.Punam Chabukswar<br>5.Pramila Bhagawat<br>6. Tanjila Tamboli<br>7. Prasanna Pothi<br>8. Manoj Kharade<br>9. Sachin Tayade | 485375-001   | Automated Solar Panel Cleaning System                                                                   | 28.12.2025       |



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**Grants Received**

1. AICTE/ISTE Refresher programme on “Battery Management System” –Rs. 1 lakh in January 2022
2. AICTE/ISTE Refresher programme on “Small wind Turbine Design Development and Testing” –Rs. 3 lakhs in March 2021
3. Savitribai Phule Pune University (SPPU) for Workshop on PLC SCADA and its Industrial Applications -Rs. 1 Lakh in 2018
4. Savitribai Phule Pune University (SPPU) for Workshop on CAD in Electrical Engineering Rs. 1 Lakh in 2017