

Faculty Profile Format

1. Basic Information

- **Name:** Mrs. Savitri Medegar
- **Designation:** Associate Professor
- **Department:** Electrical and Electronics Engineering
- **University/Institution:** Faculty of Engineering and Technology Exclusively for Women, Sharnbasva University
- **Email:** savtri.m@sharnbasvauniversity.edu.in
- **Phone (if applicable):** 8123180871

2. Academic Qualifications

- **M.Tech / M.E.:** VTU, 2015
- **B.Tech / B.E.:** VTU, 2011

3. Research Interests

- Power Electronics
- Renewable Energy Resources
- Electric Vehicle

4. Publications & Patents (*Optional: Highlight Top 3-5 Publications*)

- **Selected Publications: (*Include DOI/Link if possible*)**
- "Speed control of BLDC motor with Four Switch Three Phase Inverter using Digital Signal Controller" in 2015 in IEEE International Conference on Power and Advance Control Engineering.
- "Speed Control of BLDC motor With Four Quadrant Operation Using dsPIC" in IJSRD Vol 2, Issue 07, 2014/106.
- "A Survey on Design and Development of Electric Bicycle for Agricultural Application Using Renewable Energy Resource" in International Conference on Multidisciplinary Research(ICMR-2022).
- "A Survey on Design and Development of Electric Bicycle for Agricultural Application Using Nonrenewable Energy Resource" in 2022 in National Conference on "Recent Trends in Engineering and Management Studies".

5. Patents (if any): [Patent Title, Status (Granted/File), Year]

Title: Alternative Method of Recharging optional for Electric Two and Three wheeler"

Application Number: 202141056601 A

Date of Filing of Application: 06/12/2021

Publication Date: 10/12/2021

6. Teaching & Courses (*Mention subjects taught*)

- 1. Switchgear and Protection**
- 2. Signals and Systems**
- 3. Digital Signal Processing**
- 4. Electric Circuit Analysis**
- 5. Basic Electrical Engineering**
- 6. High Voltage Engineering**
- 7. Computer Techniques in Power System**
- 8. Renewable Energy Resources**
- 9. Energy Audit and Demand Side Management**
- 10. Soft Skill**
- 11. Professional Ethics**
- 12. Electro Magnetic Field Theory**
- 13. Fundamentals of Electric Vehicle**

7. Awards & Recognitions (*If applicable*)

- [Award Name, Year]
- [Recognition/Grant, Year]

8. Professional Memberships & Collaborations (*If applicable*)

- Life member in IETE
- IEEE Student Chapter

9. Additional Information (*If applicable – Links to Google Scholar, ResearchGate, LinkedIn, etc.*)

- [Google Scholar] - <https://scholar.google.com/citations?user=ronKYMAAAAJ&hl=en>
- [LinkedIn] - https://www.linkedin.com/feed/?trk=guest_homepage-basic_google-one-tap-submit
- [ResearchGate] - <https://www.researchgate.net>

10. Work Experience

- **Total Work Experience: 10.6 years**

11. Research Contributions

- **Papers Published:**
 - **National: [Number]**
 - **International: 02**
- **Grants Received (Projects, etc.): [Details]**
- **SUK grants**
- **Title: “Solar Powered e-Bicycle in Agricultural Field”**

Selected in the Regional Convention of AICTE Chhatra Vishwakarma Award – 2019, “Solar Powered E-Bicycle for Agricultural Application” under the theme how to enhance the income of village”.

- **Title:** Design and Development of Solar Powered Electric Vehicle for Agricultural Application. (Indigenous solar powered agribot using LoRa WAN)

Grant of a fund of 2,30,000 under the scheme of “Sharnbasva University, Kalaburagi Research Grants Scheme 2023- 2024”

- **Title:** Design and Development Smart Garbage Collection System using Solar Powered Electric Vehicle.
- K-tech New Age Innovation Network – NAIN got a fund of 63000/- ,2023-2024.
- **Ph.D. Guidance:**
 - **Ongoing:** [Number]
 - **Completed:** [Number]

12. Patent Information

- **Status:** Published
- **Patent Title:** Alternative Method of Recharging optional for Electric Two and Three wheeler”
- **Year:** 10/12/2021Title: