

## Faculty Profile Format

### 1. Basic Information

- **Name:** Dr M. Sasikala
- **Designation:** Professor
- **Department:** Electrical and Electronics Engineering
- **University/Institution:** Sharnbasva University
- **Email:** sasi\_mun@gmail.com
- **Phone (if applicable):** 8105883506

### 2. Academic Qualifications

- **Ph.D. (if applicable):** JNTU, Hyderabad, Telangana, 2008
- **M.Tech / M.E.:** Osmania University, Hyderabad, Telangana, 1987
- **B.Tech / B.E.:** Osmania University, Hyderabad, Telangana, 1985

### 3. Research Interests

- Sensors
- Fuzzy Logic

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

- **Selected Publications: (Include DOI/Link if possible)**
- Published Paper Titled "UPQC with AI Techniques for Power Quality Improvement" in Springer in 2022.
- Published Paper Titled "A weighed KNN Model for identification of medicinal plant species" in Multimedia Tools DOI: <https://doi.org/10.1007/s1042-023-15931-8>
- Published Paper Titled "A traffic load analysis model using optical flow and boosting classifier" in Multimedia Tools DOI: [doi.org/10.1007/s11042-023-14878-0](https://doi.org/10.1007/s11042-023-14878-0).
- Published Paper Titled "Custom administering attention module for segmentation of magnetic resonance imaging of the brain" in International Journal of Reconfigurable and Embedded Systems (IJRES) DOI: 2089-4864.
- Published Paper Titled "Accurate plant species analysis for plant classification using convolutional network architecture" in International Journal of Reconfigurable and Embedded Systems (IJRES) DOI: 2089-4864.
- **Patents (if any):**
  - An Accurate Vehicular Movement Understanding system in Aerial images using convolution Network Architecture in 2023.



- Artificial Intelligent IoT based detection and prevention disease tissues brain.kidneys,lungs and heart using machine learning for health care management in 2022.

#### **5. Teaching & Courses (*Mention subjects taught*)**

- Basic Electrical Engineering
- Network Analysis/Electric Circuit Analysis
- Electrical Machine Design

#### **6. Awards & Recognitions (*If applicable*)**

- Awarded Gold Medal for standing first in M.E.

#### **7. Professional Memberships & Collaborations (*If applicable*)**

- ISTE Life Member

#### **8. Additional Information (*If applicable - Links to Google Scholar, ResearchGate, LinkedIn, etc.*)**

- **Google Scholar:** <https://scholar.google.com/citations?user=b-mEF7cAAAAJ&hl=en>

#### **9. Work Experience**

- **Total Work Experience: 32 Years**

#### **10. Research Contributions**

- **Papers Published:**
  - **National: --**
  - **International: 56 (Journal)**  
**20 (Conference)**
- **Grants Received (Projects, etc.):** Received Grant of 2,00,000/- for Project Titled "Design and Development for smart EV for agriculture applications " from Sharnbasva University.
- **Ph.D. Guidance:**
  - **Ongoing: 04**
  - **Completed: 07**

#### **11. Patent Information**

- **Status:** Published
- **Patent Title:** 2023



- **Year:** An Accurate Vehicular Movement Understanding system in Aerial images using convolution Network Architecture
- **Status:** Published
- **Patent Title:** 2022
- **Year:** Artificial Intelligent IoT based detection and prevention disease tissues brain.kidneys,lungs and heart using machine learning for health care management.