



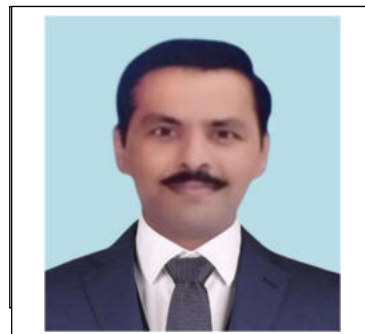
# ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY  
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)  
Rajampet, Annamayya District, A.P – 516126, INDIA

## Faculty Profile

### Basic Information:

NAME : Dr. J. SREERANGANAYAKULU  
DESIGNATION : ASSISTANT PROFESSOR  
DEPARTMENT : EEE  
DATE OF BIRTH : 10-06-1983  
DATE OF JOINING : 01-07-2022  
EMAIL ID : djs@aitsrajampet.ac.in  
EMPLOYEE ID : AITS021055



### Academic Profile:

| Qualification | Name of the Board/University | YEAR |
|---------------|------------------------------|------|
| Ph.D.         | JNTUA, ANANTAPUR             | 2022 |
| M. Tech       | SVU, TIRUPATI                | 2008 |
| B. Tech       | JNTU, HYDERABAD              | 2005 |

### Research Details:

|                                        |                        |                                            |
|----------------------------------------|------------------------|--------------------------------------------|
| 1. Areas of Specialization             | :                      | Power System Operation and Control         |
| 2. No. of Publications                 | :                      | 13                                         |
| 3. Awards Received                     | :                      | NIL                                        |
| 4. Research Guidance                   |                        |                                            |
|                                        | No. of PhD Guided:     | NIL                                        |
|                                        | No. of MTech. Guided:  | NIL                                        |
|                                        | No. of B.Tech. Guided: | 05                                         |
| 5. Details of Professional Membership: |                        | ISTE Life Member                           |
| 6. Subjects Taught                     | :                      | Electric Circuits, STLD, PSOC, EADSM, BEEE |



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## Publication Details:

| Title                                                                                                                | Publisher                                                         | Published Year |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|
| Comparative Analysis of SVM, Random Forest and Reinforcement Learning for Harmonic Mitigation in Smart Homes         | IEEE xplore                                                       | 2025           |
| Comparison of Torque Pulsations mitigation in Power system using PI and Fuzzy controllers with UPFC and SSSC         | Taylor & Francis                                                  | 2025           |
| Performance evaluation of PV configurations considering degradation rate and hot spots                               | Indonesian Journal of Electrical Engineering and Computer Science | 2024           |
| Reliability Assessment of PV Inverter Considering Degradation Rate and Panel Oversizing                              | IEEE xplore                                                       | 2024           |
| Performance Improvement of a Grid Connected PV Inverter with Optimal Controllers                                     | IEEE xplore                                                       | 2024           |
| Subsynchronous Resonance Mitigation in SMIB System Using GCSC and TCSC with Conventional and Fuzzy Logic Controllers | IEEE xplore                                                       | 2023           |
| Three Level T Type Quasi Z Source Pv Grid Tied Inverter With Active Power Filter Functionality Under Research Focus  | Journal Of Computer Research And Development                      | 2022           |
| Damping of SSR oscillations with STATCOM and TCSC                                                                    | International Journal of Engineering Research & Technology        | 2020           |
| Reduction of SSR oscillations in power system network with STATCOM and UPFC                                          | International Journal of Engineering & Technology                 | 2018           |
| Mitigation of Subsynchronous resonance oscillations using Static Var Compensator                                     | IEEE Xplore                                                       | 2016           |
| Mitigation of subsynchronous Resonance Oscillations Using Static Synchronous Series Compensator                      | International Journal of Control Theory and Applications          | 2015           |
| Mitigation of Sub synchronous Resonance Oscillations Using UPFC                                                      | Global Journal of Trends in Engineering                           | 2015           |
| Full Bridge Resonant Inverter for Induction Heating Applications                                                     | International Journal of Engineering Research and Applications    | 2013           |