

## FACULTY PROFILE

**Faculty Name: S. THIRUMALAI AH**

**Faculty Photo:**



**Faculty Description:**

S Thirumalaiah is the Associate Professor, Department of Electrical and Electronics Engineering at Dr.K.V.Subba Reddy Institute of Technology, Kurnool.

**Profile Tab:**

**Qualification**

| Qualification     | Institution   | Year |
|-------------------|---|------|
| Bachelor's degree | G. Pulla Reddy Engineering College, Kurnool – SK University | 2002 |
| Master's degree   | RGM College ,University of JNTUH                            | 2006 |

**Experience**

| Designation         | Institution  | From | To        |
|---------------------|--|------|-----------|
| Associate Professor | Dr.K.V.Subba Reddy Institute of Technology, Kurnool. | 2017 | Till date |
| Associate Professor | St.Johns Engineering College, Errakota, Yemmiganur   | 2007 | 2015      |
| Lecture             | TGL Polytechnic College, Adoni                       | 2005 | 2007      |

## **Responsibilities Tab:**

- M.Tech coordinator (ELECTRICAL POWER SYSTEMS & POWER ELECTRONICS & ELECTRICAL DRIVES) in Dr.K.V.Subba Reddy Institute of Technology, Kurnool.

## **Teaching Tab:**

### **Expertise / list of subjects handled**

- Under Graduate Courses: Power System Operation and Control. Power System Analysis, Power Systems–I, Power Systems–II, High Voltage Engineering, Network Analysis, Control Systems, STLD, Basic Electrical engineering, principles of power quality and fundamentals of HVDC & FACTS devices, switch gear and protection.
- Post Graduate Courses: Advanced Power Semiconductor Devices, Machine Modeling and Analysis, Solid-State DC Drives, Renewable Energy Conversion Systems.

## **Research Tab:**

- Power systems and Power Electronics

### **Research projects (current)**

- UNIFIED POWER FLOW CONTROLLER USING THE CASCADE MULTI LEVEL INVERTER

## **Publications tab:**

### **Conferences**

- Attended 2 days National Level Workshop on **Recent Trends in Power Electronics & Drives** (RTPED 2007) in **GPREC, Kurnool.**
- Attended one day National Level Workshop on **Cloud Computing** in **JNT UNIVERSITY, Anantapur.**(august 2011)
- Attended 2 days Short- term Course **simulation of electrical power system net work on MATLAB Environment** (july 16-17 ,2011) in **SKTRMCE, Mahabub nagar.**
- Attended one day National Level Workshop on “ **Soft Computing Techniques in Electrical Engineering**” in **RCEW, kurnool** ( **22<sup>nd</sup>**august 2014)
- Attended 3 days National Level Workshop on **simulation of power electronics &DRIVES** (SPED-2012 ) in **GPREC, Kurnool.**

## Journals

1. **“Fuzzy logic based seven level modified H-bridge inverter for grid connected PV system”** published in IJERA journal, vol.3, issue5, september-october 2013.
2. **“Fault Allocation in multi level cascaded converter STATCOM`s”** published in IJERT journal, vol.2, issue8, AUGUST 2013 .
3. **“Direct Torque control of IM Drive for speed regulator using adaptive controller”** published in IJERA journal, vol.3, issue6, NOV-DEC 2013.
4. **“simulation of IPMSM sensorless drive and identification of permanent magnet rotor flux by extended kalman filter”** published in IJIREEICE journal, vol.1, issue6, SEP- 2013.
5. **“simulation of soft-switching interleaved boost converter with PV system”** published in IJERA journal, vol.3, issue6, NOV-DEC 2013.
6. **“A Novel Multilevel Inverter Topology for PV Connected Systems with Harmonic Elimination Method”** published in UNIETS journal, vol.1, issue4, ISSN - 2346 DEC- 2014.
7. **“LOAD FREQUENCY CONTROL OF THREE AREA POWER SYSTEM USING FUZZY LOGIC CONTROLLER”** published in IJTSRD Vol-4, issue- 2, Jan Feb 2020.
8. **Accurate reactive power sharing in an islanded microgrid using adaptive virtual impedances”** published in IJECEC international journal, volume 5 Issue 4, ISSN - 2533-8943 AUG- 2019.
9. **“FIVE-LEVEL ONE-CAPACITOR BOOST MULTILEVEL INVERTER FOR GRID-CONNECTED PV SYSTEM”** published in Journal of Nonlinear Analysis and Optimization: Theory & Applications, Vol. 12, No. 2, 2021.
10. **“NOVEL SWITCHED CAPACITOR CONVERTERS WITH REDUCED COMPONENTS FOR STEP-UP MULTILEVEL INVERTER TOPOLOGY”** in International Journal of Food and Nutritional Sciences, Volume 11 , Iss 12 2022.
11. **“CLOSED LOOP CONTROL OF BIDIRECTIONAL BUCK-BOOST CONVERTER IN A SMART GRID USING PHOTOVOLTAIC AND ENERGY STORAGE SYSTEMS”**, in Turkish Journal of Computer and Mathematics Education (TURCOMAT) in Vol.11 No.1 (2020), 1127-1138.

### **FDPs AND STTPs TAB :**

1. Participated in the Training program/FDP on “FIRST HAND EXPERIENCE ON SPSS – INTRODUCTORY MODULE “ Organised by faculty of commerce - Parul University, Research foundation of India & RFI care from 06 November to 12 November 2022.
2. Completed all requirements of an AICTE Sponsored One Week National Level Online STTP on “Recent Trend and Challenges in Power Market with Smart Grid Technology” (PHASE-III) Organised by the Department of Electrical and Electronics Engineering, 20th TO 25th 2021.

### **Blog Tab:**

Blog link :

