Dr. R. Durga Rao

Ph.D in POWER SYSTEMS

Associate Professor

Life Member of ISTE; LM 85703, Life Member of SYSTEM SOCIETY OF INDIA; LM 33213

Electrical & Electronics Engineering

Areas of Interest:
Electrical Power Systems
High Voltage Engineering
Electrical Machines
Gas Insulated Substations
Solar Power Generation
Electrical Simulation Systems
Electrical Circuits

- **Educational & Professional**

- **Academic Qualifications**
  - Ph.D in Estimation & Mitigation of Very Fast Transient Over Voltage Magnitudes by Switching the Lumped Elements in UHV Gas Insulated Switchgear Substations, JNTUH with A+ (2011-2016)
- M.Tech in Electrical Power Engineering, JNTUH with DISTINCTION (2006-2008)
- B.Tech in Electrical & Electronics Engineering, JNTUH with DISTINCTION (1998-2002)

- **At JNTUH**
- Assistant Professor with Academic Level10, JNTUH (2011 - 2012)
- Assistant Professor with Academic Level11, JNTUH (2012 - 2017)
- Associate Professor with Academic Level12, JNTUH (2017 - 2020)
- Associate Professor with Academic Level13A, JNTUH (2020 - Till Date)
- Professor with Academic Level 13A, JNTUH (2023 - Till Date)

- **Publications**
- **International Journals**
- R.Durga Rao, *Fuzzy Control Voltage Sag and Swell Compensation by Using DVR with BESS*, Scientific Engineering and Technology Research , ISBN No.2319-8885, June, 2017
- R.Durga Rao, *New Topology of HVDC for Its Enhancement of AC/DC Interconnected Transmission Systems*, Advanced Technology and Innovative Research , ISBN No.2348-2370, June , 2017
- R.Durga Rao, *New Topology of HVDC for Its Enhancement of AC/DC Interconnected Transmission Systems*, Advanced Technology and Innovative Research , ISBN No.2348-2370, June, 2017
-
International Conference
- R.Durga Rao, *Analysis of VFTO across Bushing in 765KV Gas Insulated Substation Using EMTP Software*, Smart Electric Grid - 2014 , ISBN No.978-1-4799-4103, February, 2014
-
National Conference
- R.Durga Rao, *Forecasting of Power Using Neuro-Fuzzy Ideology*, Advanced Computing and Pattern Recognition , ISBN No.9789383038176, January, 2014
- R.Durga Rao, *Comparison between suppressing approaches of VFTOâ€™s in GIS using EMTP Software*, 38th National Systems Conference - 2014, ISBN No.978-935107297-3, 2014
- R.Durga Rao, *Forecasting of Power Using Neuro-Fuzzy Ideology*, Advanced Computing and Pattern Recognition - 2014, 2014
- R.Durga Rao, *Analysis & Comparision of SVPWM & SPWM Controlled 2-Level Inverter fed 3-Phase*, Recent Advances in Communications & Energy Systems
- R.Durga Rao, *Suppression of Very Fast Transient Over â€“ Voltages in GAS Insulated Substations*, Advances and Applications in Power Systems, Power Electronics and Solar Energy

- **Project/Research Guidance**

- **Students**

Student Name	Title	Year	Download
KONKA VENKANNA	STUDY OF VERY FAST TRANSIENT OVER-VOLTAGES AND MITIGATION TECHNIQUES OF 1200KV GAS INSULATED SUBSTATION	2018	
DARA SHVA KUMAR	AN OPTIMISED MAXIMUM POWER POINT TRACKING OF ARRAY USING MODEL REFERENCE ADAPTIVE CONTROL	2017	
UDAY CHANDRA S	SURGE PROTECTION DEVICES FOR 235KV, 500KV, 750KV GAS INSULATED SUBSTATION	2017	
KONA JAYADHAR	VERY FAST TRANSIENT OVER-VOLTAGES IN 235KV, 500KV, 750KV GAS INSULATED SUBSTATIONS	2016	
BOLISHETTY KRANTHI	ANALYSIS AND SUPPRESSION OF VFTO IN GIS	2015	
VENKATA SAI KRISHNA KOTOJU	ANALYSICS AND SUPPRESSION OF CAPACITIVE VOLTAGE IN 420 KV GAS INSULATED SUBSTATION	2015	
RAMAGIRI SRIDIVYA	WAVELET ANALYSIS OF VERY FAST TRAFICANT OVER VOLTAGES AND TRANSIENT CURRENTS IN A 245KV GAS INSULATED SUBSTATION	2013	
K SRAVAN KUMAR	MITIGATION OF VERY FAST TRANSIENT OVER VOLTAGES IN GAS INSULATED SUBSTATIONS USING DIFFERENT TECHNIQUES	2013	
VAISHNAVI AVADHANULA	ANALYSIS OF ROBUST DAMPING CONTROLLER FOR HV-AC/DC SYSTEMS USING LOOP SHAPING PROCEDURE	2013	

Student Name	Title	Year	Download
1. DEEKONDA PRIYANKA, 2. VADDEPALLY SHRAVYA, 3. SALVADI SWETHA, 4. BVS RAGHAVA, 5. KAYITHI SAMPATH	CONTROL SCHEME FOR STANDALONE WIND ENERGY CONVERSION SYSTEM	2018	
1. SONNAKULA DEVAYANI, 2. MERUGU ARPITHA, 3. GURRAM SURYAM, 4. YAMANKI HEMANTH KUMAR, 5. KATEPAGA KIRAN KUMAR	DOUBLY FED INDUCTION GENERATOR FOR WIND ENERGY CONVERSION WITH ACTIVE FILTER CAPABILITIES	2018	
1. GUNDA POOJITHA, 2. CHIPPA SRIKANTH, 3. A THODUSU VIJAY, 4. NERELLA VENKATESH	SOFT â€“SWITCHING DESIGN OF ISOLATE BOOST CONVERTER FOR VEHICLE INVERTER APPLICATION	2017	
1. JULURE MURALI, 2. RAGULA VENKATESH, 3. GAJERLA VENNELA, 4. DAMALA EBINAZER	MINIMIZING PENALITY IN INDUSTRIAL POWER CONSUMPTION BY ENGAGING APFC UNIT	2017	
1. MULUKA BHARATH, 2. THOTLA LINGASWAMY, 3. SHAGA SAI KRISHNA, 4. NOUNDLA SANJAY, 5. BHUKYA ROJA	SUN TRACKING SOLAR PANEL USING MICROCONTROLLER	2016	
1. LINGA KIRAN KUMAR, 2. MOHD FUZAIL HUSSAIN, 3. PULLURI RAVI, 4. VENGALADAS SAIPAVAN	DISTANCE CALCULATION FOR UNDERGROUND SHORT CIRCUIT CABLE FAULTS USING RM4C MICROCONTROLLER	2016	
1. NANDIKONDA MOUNIKA, 2. MOHAMMAD FASIUDDIN, 3. PITTALA SRILEKHA, 4. NARAYANDAS SANDEEP, 5. KANNA RAHUL	ANALYSIS AND MITIGATION OF VERY FAST TRANSIENT OVER VOLTAGES IN GAS INSULATED SUBSTATION USING RC FILTERS AND FERRITE RUNGS	2015	
1. GUDIMALLA GOPI, 2. KETHI REDDY KEERTHANA, 3. YELDANDI RAJI REDDY, 4. BHUKYA VINOD KUMAR, 5. PEDDAPALLI NAVEEN	ANALYSIS AND MITIGATION OF VERY FAST TRANSIENT OVER VOLTAGES IN GAS INSULATED SUBSTATION USING EMTP SOFTWARE	2015	
1. B.THARUN KUMAR, 2. CH.VINDU, 3. M.AVINASH REDDY, 4. T.PRASHANTH	ANALYSIS OF VERY FAST TRANSIENT OVER VOLTAGES IN 245 KV GAS INSULATED SUBSTATION	2013	
1. B.THARUN KUMAR, 2. CH.VINDU, 3. M.AVINASH REDDY, 4. T.PRASHANTH	SUPPRESSION OF VERY FAST TRANSIENT OVER VOLTAGES IN 245 KV GAS INSULATED SUBSTATION USING FERRITE RINGS	2013	
1. K.NARESH, 2.D.RAJESH NAIK, 3. S.RAVI TEJA, 4. J.SAI KUMAR, 5. Y.GANGADHAR RAO	A CASE STUDY ON AIR PREHEATER	2011	
1. Md.ZUMANUDDIN, 2. K.NITHIN, 3. G.NAVEEN KUMAR, 4. I.HUSSAIN	SEASONAL INFLUENCE SAFETY OF SUBSTATION USING GROUNDING	2011	
1. K.NITHIN KUMAR, 2. A.RAVI KUMAR, 3. S. KIRAN KUMAR	TECHNICAL STUDY OF UNITS IN NTPC	2011	

Contact :

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Electrical & Electronics Engineering

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Alternate Email: ramisetti213@gmail.com