

FACULTY PROFILE



Name : **J.N.CHANDRA SEKHAR**
Father's name : J. Narasimhulu Naidu
Age and Date of Birth : 33 Years / 07-09-1982
Sex : Male
Marital Status : Married
Nationality : Indian
Religion : Hindu
Qualification : M.E. (PhD)
Designation : Assistant Professor
Scale of Pay : 15600-39100 + AGP 6000
Specialization : Power Electronics and Industrial Drives
Languages Known : Telugu, English and Hindi
Official Address : Assistant Professor
Department of Electricals & Electronics
Engineering
Sri Venkateswara University College of Engineering
Tirupati- 517502, Andhra Pradesh, India.
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- Currently working as Assistant Professor, Department of EEE, Sri Venkateswara University College of Engineering, Tirupati since 20th Aug 2009 (6 years)

M.TECH PROJECTS GUIDED

S. No	Name of the Student	Project Title	Year
1	Devisree Chippada (1108305)	Computation of Electro Magnetic Interference(EMI) due to Corona on High Voltage Transmission Lines	2011
2	Babu Rao (1108302)	Soft Switched Matrix Converter for Direct AC-AC Power Conversion	2011
3	Muhammad Shakeel (1108310)	Shunt Capacitor Bank Switching Transient Analysis Using PSCAD	2011
4	P.Harshavardhan Reddy (11093105)	Effect of DSTATCOM devices on the Dynamic Performance of Distribution Networks	2011
5	B.RupaGanda (11093122)	Transient Analysis for an Isolated Power System using Twenty-Four Pulse Electronic Load Controllers	2011
6	S.Rakesh (1110330)	Maximum Power Point Tracking in Photo Voltaic System using Fuzzy Control Method	2013
7	D.Nikitha (1111329)	A High Performance Induction Motor Drive System using PI, FLC and ANN	2013
8	A.Prabhakar (1111330)	Performance of DFIG Wind Turbine System using Fuzzy Logic Controllers inDynamic Voltage Restorer	2013
9	Y.V.Rajesh (1111365)	Total Harmonic Reduction at Distribution Level for Grid Interfacing of RES	2013
10	S.Pravallika (1112338)	Simulation of Indirect Vector Control of Induction Motor with Hybrid Controllers	2014
11	S.Riaz Ahamed (1112337)	Speed Control of Induction Motor by Using GA based Hybrid Controllers	2014
12	M.M.Santhi (1112333)	Simulation and Analysis of Adaptive Control Method Employed for Matrix Converter	2014
13	K.Sreedhar Kumar (1112358)	Limitation of Fault Current by Positioning of Super Conducting Fault Current Limiter in AC and DC microgrid	2014
14	A.Sandeep (E1112327)	Reduction of Oscillations in Generator Turbine due to Sub-synchronous Resonance by Using Fuzzy Controller	2015
15	S.K.Roohi Apsha (1113353)	A Fuzzy Logic Controller Based SVM-DTC of an Induction Motor Using Extended Kalman Filter	2015

COURSES OFFERED

B.Tech	M.Tech
Power Semiconductor Drives	Industrial Drives and Control
Microprocessors and Applications	Digital Control Systems
Power Electronics	Reactive Power Control in Power Systems
Neural Networks and Fuzzy Logic	Neural Networks and Fuzzy Control Systems
High Voltage Engineering	

ACADEMIC POSTS

- Discharged duties as **College NCC Officer, 11(A) Air Squadron Tech (NCC)**, S V University College of Engineering from July 2010 to July 2012.
- Acting as Additional Chief Superintendent of Examinations
- Member in College Library Committee.
- Member in Board of Studies(BoS) in Electrical and Electronics Engineering(P.G.)
- Member in Board of Studies(BoS) in Electrical and Electronics Engineering(PASS)
- Member in University Documentation Committee for NAAC
- Nodal Officer (Finance) for Centre of Excellence under TEQIP 1.2.1

RESEARCH EXPERIENCE

Pursuing PhD (Part-time) basis under the esteemed guidance of **Dr. G.V.Marutheswar**, Professor, Department of EEE, S.V.U. College of Engineering, Tirupati since July 2010 and working in the field of **“Design of Configurable Controllers for AC Drives”**.

Publications/Journals		Conferences	
National	International	National	International
01	19	02	13

PUBLICATIONS:

International Journals

1. Devisree Chippada, J.N.Chandra Sekhar, “**Computation of Electro Magnetic Interference (EMI) on High Voltage Transmission Lines**” Research Journal of Engineering and Technology, Vol.3, Issue.3, pp.26-30, ISSN : 0974-2824, July-September 2010.
2. P.Harshavardhan Reddy, J.N.Chandra Sekhar, Dr.G.V.Marutheswar, “**Effect of D-Statcom Devices on the Dynamic Performance of Distribution Networks**”, International Journal of Emerging Technology and Applications in Engineering, Technology and Sciences, ISSN: 0974-3588, Vol.4, Issue 2 of IJETAETS, pp.177-181, July-Dec 2011.
3. B.Rupaganda, J.N.Chandra Sekhar, Dr.G.V.Marutheswar, “**Transient Analysis for an Isolated Power System using Twenty four pulse Electronic Load Controller**”, International Journal of Computer Applications in Engineering, Technology and Sciences, ISSN: 0974-3596, Vol.4, Issue 1 of IJCAETS, pp.202-26, Oct’11-March ‘12.
4. S.Rakesh, J.N.Chandra Sekhar, “**Photovoltaic Array Maximum Power Point Tracking Using Fuzzy Control Method**”, International Journal of Engineering Research and Technology (IJERT) ISSN 2278-0181 Volume 2, Issue7 July 2013.
5. J.N.Chandra Sekhar, D.Nikitha, “**Modeling and Simulation of IM Drive Performance using PI, ANN and FLC**”, International Journal of Emerging Technology and Advanced Engineering (IJETAE) ISSN 2250-2459, ISO 9001:2008, Volume 3, Issue 10 October 2013.

6. A.Prabhakar, J.N.Chandra Sekhar, “**Performance of the DFIG Wind Turbine system using Fuzzy Logic Controller in Dynamic Voltage Restorer**”, Journal of International Academic Research for Multi-disciplinary (JIARM) ISSN **2320-5083**Volume 10, Issue 3 November 2013.
7. Y.V.Rajesh, J.N.Chandra Sekhar, “**Total Harmonic Reduction At Distribution Level for Grid Interfacing Of RES**”, Journal of International Academic Research for Multi-disciplinary (JIARM) ISSN: 2320-5083 Volume1, Issue 9 November 2013.
8. P.Dinakar Prasad Reddy, J.N.Chandra Sekhar, “**Application of Firefly Algorithm for Combined Economic Load and Emission Dispatch**”, International Journal on Recent and Innovation Trends in Computing and Communication; ISSN: 2321-8169 Volume:2 Issue:8 2448-2452, August 2014.
9. S.Pravallika, J.N.Chandra Sekhar, P.Dinakar Prasad Reddy, “**Optimization of Speed Control of Induction Motor Using Self Tuned PI plus Fuzzy Hybrid Controller**”, International Journal of Emerging Technology and Advanced Engineering (IJETAEE); ISSN: 2250-2459, Volume 5 Issue 1, January, 2015.
10. S.Riaz Ahamed, J.N.Chandra Sekhar, P.Dinakar Prasad Reddy,” **Speed Control of Induction Motor by Using Intelligence Techniques**”, International Journal of Engineering Research and Applications (IJERA); ISSN: 2248-9622, Volume 5, Issue 1(part 5), January 2015.
11. Dr. M.Vijaya Kumar, G.Pandu Ranga Reddy, J.N. Chandra Sekhar, Santhi.M.M,” **Simulation and Analysis of Adaptive Control Method Employed for Matrix Converter**”,International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engg (IJAREEIE), ISSN: 2278-8875, Volume 4, Issue 2, February 2015.
12. K.Sreedhar Kumar, J.N. Chandra Sekhar,”**Limitation of Fault Currents by positioning of Superconducting Fault Current Limiter in AC and DC Microgrid**”,International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engg (IJAREEIE), ISSN: 2278-8875, Volume 4, Issue 2, February 2015.
13. A.Sandeep, J.N.Chandra Sekhar, P.Dinakar Prasad Reddy,” **Reduction of Oscillations in Generator Turbine due to Sub-synchronous Resonance by Using Fuzzy Controller**”, IOSR Journal of Electrical and Electronics Engineering, ISSN: 2278-1676, Volume 10, Issue 3, May-June 2015.

14. A.Sandeep, J.N.Chandra Sekhar, P.Dinakara Prasad Reddy,” **Reduction of Sub-synchronous Resonance by Using PSO based PI Damping Controller Using Fuzzy Controller**”, International Journal of Engineering Sciences and Research Technology (IJESRT), Volume 4, Issue 5, May 2015.
15. V.M.Surekha, S.K.Roohi Apsha, J.N.Chandra Sekhar, G.Panduranga Reddy,”**Comparison between Vector Control and Direct Torque Control Of Induction Motor Using Simulation**”, Global Journal of Trends in Engineering (GJTE), ISSN: 2393-9923, Volume 2, Issue 3, March 2015.
16. K.Mohan Krishna, K.Veda Siva, J.N.Chandra Sekhar, G.Panduranga Reddy,”**Optimization of Speed Control of an Induction Motor Using Self Tuning of PI Plus Fuzzy Logic Controller**”, Global Journal of Trends in Engineering (GJTE), ISSN: 2393-9923, Volume 2, Issue 3, March 2015.
17. Sk.Roohi Apsha, J.N.Chandra Sekhar,” **A Fuzzy Logic based Sensorless Speed Control of DTC-SVM of an Induction Motor using EKF**”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), ISSN: 2321-2004, Volume 3, Issue 11, November 2015
18. K.Mohan Krishna, J.N.Chandra Sekhar, Dr.G.V.Marutheswar, “ **Modelling and Simulation of Three Level VSI-Neutral Point Balancing Fed AC Drive using Intelligence Techniques**”, International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622, Vol. 5, Issue 12, pp 174-182, (Part-4), December 2015.
19. V.M.Surekha, J.N.Chandra Sekhar,” **FLC based DTC Scheme for a New Approach of Two-Leg VSI Fed Induction Motor**”, International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622, Vol. 5, Issue 12, pp 27-78 (Part-4), December 2015.

National Journals

- 1 P.Harshavardhan Reddy, J.N.Chandra Sekhar, M.Padma Lalita, “**Dynamic Improvement of Distributed Generators Connected to Distribution Networks using D-Statcom** “,i-manager’s Journal on Electrical Engineering, ISSN: 0973-8835, Vol.5, Issue 3, pp.16-22, Jan-March 2012.

CONFERENCES:

International Conferences

1. P.HarshavardhanReddy, **J.N.ChandraSekhar**, G.V.Marutheswar, Dr.M.Padma Lalitha “**Application D-Statcom for Improved Dynamic Performance of DG’s in Distributed Networks**”, International Conference on Emerging Technological Trends in Advanced Engineering Research (ICETT), 20-21 Feb 2012.
2. D.Nikitha, J.N.Chandrasekhar,” **Modeling and Simulation of IM Drive Performance using Neural and Fuzzy Systems**”, International Conference on Renewable Energy and Sustainable Energy(ICRESE-2013), Dec 4-5 2013.
3. D.Nikita, J.N.Chandra Sekhar,” **Modeling and Simulation of IM Drive Performance Usnig PI, ANN and FLC**”, International Conference on IT Convergence and Security (ICITCS-2013), IEEE Computer Society, 16-18 December 2013, Macau, China.
4. J.N.Chandra Sekhar, P.Dinakara Prasad Reddy, G.Pandu Ranga Reddy, S.Pravallika, “ **Optimization of Speed Control of an Induction Motor Using Soft Computing Techniques**”, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014), organized by Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.
5. J.N.Chandra Sekhar, P.Dinakara Prasad Reddy, G.Pandu Ranga Reddy, S.Pravallika, “ **Optimization of Speed Control of an Induction Motor Using Soft Computing Techniques**”, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014), organized by Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.
6. T.Kishore Babu, K.Murali Kumar, G.Pandu Ranga Reddy, J.N.Chandra Sekhar, “**Improved Power Quality Performance by Using Active Power Filter for Renewable Power Generation Systems**”, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014), organized by the Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.
7. G.Pandu Ranga Reddy, J.N.Chandra Sekhar, P.D.Prasad Reddy, M.M.Santi S.Pravallika, “**Intelligent Control for the Performance Improvement of DFIG based Wind Turbine System Using Matrix Converter**”, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014),

organized by Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.

8. J.N.Chandra Sekhar, P.D.Prasad Reddy, G.Pandu Ranga Reddy, S.Riaz Ahamed, **“ Performance Study of Induction motor Drive Using Fuzzy Controller and Neural Trained Genetic Algorithm”**, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014), organized by Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.
9. P.Dinakara Prasad Reddy, J.N.Chandra Sekhar, K.Sreedhar Kumar, **” A Novel Approach of Optimal Power Flow Analysis Using Electrical Transient Analyzer Program”**, 1st International Conference on Advanced Electrical Systems and Applications (AESAs-2014), organized by Dept of EEE, G.Pullaiah College of Engineering and Technology, 25 June 2014, Kurnool.
- 10.V.M.Surekha, S.K.Roohi Apsha, J.N.Chandra Sekhar G.PandurangaReddy, **”Comparison between Vector Control and Direct Torque Control of Induction Motor Using Simulation”**, 2nd International Conference on Advanced Electrical Systems and Applications (AESAs – 2015), organized by Dept. of EEE, G. Pullaiah College of Engineering and Technology, 25 March, Kurnool.
11. K.Mohan Krishna, K.Veda Siva, J.N.Chandra Sekhar, G.Panduranga Reddy, **”Optimization of Speed Control of an Induction Motor Using Self Tuning of PI Plus Fuzzy Logic Controller “**, 2nd International Conference on Advanced Electrical Systems and Applications (AESAs – 2015), organized by Dept. of EEE, G. Pullaiah College of Engineering and Technology, 25 March 2015, Kurnool.
12. M.Herald Wilson, J.N.Chandra Sekhar, Dr. G.V.Marutheswar, **” Speed Control Of PM Synchronous motor Drives Using PID and Fuzzy Approach”**, 2nd International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE-2015), 21-22 August 2015, organized by Gurunanak Institute of Technology, Hyderabad.
13. P.M.Pradeep Krishna , J.N.Chandra Sekhar, Dr. G.V.Marutheswar, **” Simulation of DC-DC Converter fed BLDC Motor Drive for PFC Using PI-Fuzzy Methods”**, 2nd International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE-2015), 21-22 August 2015, organized by Gurunanak Institute of Technology Hyderabad.

National Conferences

- **J.N.Chandra Sekhar, “Effect of D-Statcom Devices on the Dynamic Performance of Distribution Networks”**, AICTE Sponsored Conference on National Economy and Social Transformation through Advances in Electrical Engineering, 29-30 August 2011.(Participated and presented the paper)

- **B.Rupaganda, J.N.Chandra Sekhar, Dr.G.V.Marutheswar, “Implementation and Transient Analysis for an Isolated Power System using Twenty four pulse Electronic Load Controller”**, AICTE Sponsored Conference on National Economy and Social Transformation through Advances in Electrical Engineering (NESTAE-2011), 29-30 August 2011.(Participated and presented the paper)

WORKSHOPS/TRAINING PROGRAMMES/CONFERENCES ATTENDED

1. Participated in the Three-day National Level Workshop on “**Simulation of Electrical Systems using MATLAB**” from 1-3 Dec 2010 organised by Department of EEE, G.Pulla Reddy Engineering College, Kurnool.
2. Organized and participated in National Workshop on “**Smart Grid Technologies-Issues and Challenges**”, conducted on 20 Aug, 2011 by Department of EEE, S V University College of Engineering, Tirupati.
3. Participated in **Two-Week ISTE Main Workshop on Basic Electronics** organized by IIT Bombay from 28th June to 8th July 2011 at Sri Venkateswara University College of Engineering, Tirupati.
4. Participated in One-day Workshop on” **Cloud Computing**” on Nov-8 2011, organized jointly by UGC-SVU Centre for MST RADAR Applications Dept. of Physics, S V University, Tirupati and IETE Tirupati.
5. Participated in **National Workshop on “Research Methodology”** under TEQIP - II organized by Department of Computer Science and Engineering, Sri Venkateswara University college of Engineering, Tirupati at Sri Venkateswara University, Tirupati from 29th to 30th September, 2012.
6. Participated in **UGC – Sponsored Orientation Programme** organized by University Grants Commission – Academic Staff College at Sri Venkateswara

University, Tirupati from 29th October 2012 to 24th November, 2012 and obtained **Grade A**.

7. Participated in the Faculty Development Programme on “**VLSI Design Flow Using Synopsys EDA Tools**” from 12-13 April 2013, organized by Dept. of ECE, SV University College of Engineering, Tirupati and SEER AKADEMI USA Inc.
8. Participated in **Two-Week ISTE Main Workshop on Database Management Systems** organized by IIT Bombay from 21st May to 31st May 2013 at Sri Venkateswara University College of Engineering, Tirupati.
9. Participated in **Two-Week ISTE Main Workshop on Analog Electronics** organized by IIT Kharagpur from 4th June to 14th June 2013 at Sri Venkateswara University College of Engineering, Tirupati.
10. Participated and Organized in National Workshop on “**Advances in Power System**” on 5-6 July, 2013 by Department of EEE, S V University College of Engineering, Tirupati.
11. Participated in Industry-Institute Interaction Programme (Faculty Development Programme) on topic “Developing **Employability Skills among Students – Industry Perspective**” organized by S V University College of Engineering, Tirupati and TCS, Hyderabad on 27th July 2013 under TEQIP-II 1.2.
12. Participated in **FSIT Masters Training Programme (NASSCOM) in Technical Skills** from 21st to 28th October 2013 at Osmania University College of Engineering, Hyderabad under TEQIP-II.
13. Participated in **Two-Week ISTE Main Workshop on Signals and Systems** organized by IIT Kharagpur from 2nd January to 12th January 2014 at Sri Venkateswara University College of Engineering, Tirupati.
14. Participated in 5th Batch of **Pedagogical Training on Core Module** under TEQIP-II from 20th to 25th January 2014 at Engineering Staff College of India (Institution of Engineers, India) Hyderabad.
15. Participated in National Workshop on “**Advances in Signal and Image Processing**” on 28th April 2014 organized by Dept. of ECE, S V U College of Engineering, Tirupati under TEQIP-II.

16. Participated in the Faculty Development Programme on “**Intellectual Property Rights**” held on 8th July 2014 in association with TATA Consultancy Services at S V U College of Engineering, Tirupati.
17. Participated in Two Days Workshop on “**Initiatives for Quality Improvement in Engineering Education**” organized by S V U College of Engineering, Tirupati on 15-16 November 2014 under TEQIP-II.
18. Participated in **Two-Week Main Workshop on Control Systems** organized by IIT Kharagpur from 2nd December to 12th December 2014 at Sri Venkateswara University College of Engineering, Tirupati.
19. Participated in Two day Workshop on “**Wavelets Transforms in Signal Processing**” on 14-15 March 2015 organized by Dept. of ECE, S V U College of Engineering, Tirupati.
20. Participated in DST-SERB sponsored National Seminar on “**Advances in Power and Energy System**” on 27-28 April, 2015, organized by Dept. of EEE, Sri Venkateswara College of Engineering and Technology, Chittoor.
21. Participated in **Two-Week ISTE STTP on Introduction to Design of Algorithms**” organized by IIT Kharagpur from May 25 -30, 2015 at Sri Venkateswara University College of Engineering, Tirupati.
22. Participated in the All India Seminar/Conference on “**Energy Security through New and Renewable Energy Resources- Energy Conversation mission**”, on 27-29, July-2015 organized jointly by The Institution of Engineers (India), SE&T, SPMVV and S V U College of Engineering, Tirupati.
23. Participated in National Workshop on “ **FPGA based Control of Permanent Magnet and Reluctance Motors for Energy Efficient Industrial Drives**” organized by Dept of EEE and Dept. of Robotics and Automation Engineering, PSG College of Technology, Coimbatore on 6-8 August, 2015.
24. Participated in **UGC – Sponsored Refresher Course** organized by University Grants Commission – Human Resource Development Centre at Sri Venkateswara University, Tirupati from 16th November 2015 to 5th December 2015 and obtained **Grade A**.

