

## RESUME

Dr. K. CHANDRA SEKHAR,  
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Electrical & Electronics Engineering Department,  
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<https://scholar.google.com/citations?user=gM3fsIAAAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=16318397200>

[https://www.researchgate.net/profile/K\\_Sekhar](https://www.researchgate.net/profile/K_Sekhar)

### **Educational Qualifications:**

**Ph.D** in the Faculty of Electrical Engineering J.N.T U, Hyderabad in the Year 2008

**M.Tech** in Electrical Machines & Industrial Drives from Regional Engineering College (REC), Warangal in the Year 1994.

**B.Tech** in Electrical & Electronics Engineering from Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada ( Nagarjuna University) in the year 1991.

### **Experience:**

Presently working as a Professor & Head at Department of Electrical & Electronics Engineering, RVR & JC College of Engineering, Guntur, since June 2008.

Worked as an Assistant Professor at Department of Electrical & Electronics Engineering, RVR & JC College of Engineering, Guntur, during November 2000 to May 2008.

Worked as a Lecturer at Department of Electrical & Electronics Engineering, Koneru Lakshmaiah College of Engineering, Vaddeswaram, Guntur-Dt., during September 1995 - October 2000.

Worked as a Junior Engineer and Design & Testing Engineer at Maitreya Electricals Private Limited, Vijayawada during 1994-1995

**Experience:**

R&D and Teaching Experience : 29 Years

Industrial Experience : 2 Years

**Professional Experience:**

(Personally responsible)

- ✚ Design, Manufacturing and Testing of 63KVA Distribution Transformer at Maitreya Eletricals Pvt. Ltd.
- ✚ Developed software “Data Acquisition System” for Tandem cold rolling mill, which is a part of PLC Based DAS &MMI software for ROURKELA STEEL PLANT at BHEL (ISG) Bangalore.

**ADMINISTRATIVE EXPERIENCE**

- ✚ Member Board of Studies in Electrical & Electronics Engineering, SRK Institute of Technology 15.09.2023 to till 14.09.2025.
- ✚ Member Board of studies in Electrical & Electronics Engineering, Acharya Nagarjuna University. 01.12.2016 to till date.
- ✚ Member Board of Studies in Electrical & Electronics Engineering, Vishnu Institute of Technology (Autonomous), Bhimavaram, WG (DT). 15.05.2019 to till 30.07.2024.
- ✚ Chairman Board of studies in Electrical & Electronics Engineering, R.V.R & J.C College of Engineering (Autonomous). 16.04.2012 to till date.
- ✚ Member Academic Council R.V.R & J.C College of Engineering (Autonomous). 16.04.2012 to till date.
- ✚ Member in Institute Management Committee (IMC) Govt.D.L.T.C/ I.T.I, Guntur.29.12.2007 to till date.
- ✚ Chairman Board of studies in Electrical & Electronics Engineering, Acharya Nagarjuna University. 01.04.2010 to 30.11.2016.
- ✚ Coordinator, Internal Quality Assurance Cell (IQAC), R.V.R & J.C College of Engineering (Autonomous), 28.08.2014 to 08.12.2016
- ✚ Member of Program Advisory Board of Electrical & Electronics Engineering, P.V.P.Siddhartha Institute of Technology (Autonomous), Vijayawada. 12-08-2014 to 11.08.2016
- ✚ Member Board of Studies in Electrical & Electronics Engineering, Bapatla Engineering College (Autonomous), Bapatla. 12.06.2013 to 11.06.2016

- ✚ Member of Program Advisory Board of Electrical & Electronics Engineering, V.R.Siddhartha Engineering College (Autonomous), Vijayawada. 01-01-2009 to 31.05..2015
- ✚ Member Board of Studies in Electrical & Electronics Engineering, V.R.Siddhartha Engineering College (Autonomous), Vijayawada. 01-02-2011 to 31.01.213
- ✚ Member Board of Studies in Electrical & Electronics Engineering, Krishna University, Machilipatnam. 06.07.2011 to 05.07.2015.
- ✚ Member Academic Council K.L University, Green Fields Vaddeswaram, Guntur-Dt. 02.03.2010 to 01.03.2012
- ✚ Worked as a convener for Examinations committee at RVR & JC College of Engineering for three Years.
- ✚ Appointed as a Chief Superintendent TEN times for the EAMCET Entrance Examinations conducted by Andhra Pradesh State Government.
- ✚ Appointed as a Chief Superintendent Three times for the AIEEE/JEE (Mains)/NEET Entrance Examinations conducted by CBSC, New Delhi.
- ✚ Appointed as a Panel member in Interview Boards to select Faculty members at various Engineering Colleges.

#### PhD's Guided:

Sl. No	Name of the Research Scholar	Title of the Research Work	Year of Award	Registered University /Institute	Supervisor/Co-Supervisor
1	O.Chandra Sekhar	Modulation and control of Multi-level Inverters For Direct Torque Control Induction Motor Drive	2013	J.N.T.U, Hyderabad	Supervisor
2	G.Sambasiva Rao	Modulation and Control of Multi-level Inverters for an Open end Winding Induction Motor	2014	J.N.T.U, Hyderabad	Supervisor
3	J Vara Prasad	Optimization of Financial and Physical Flows using Unified Power Flow Controller in Deregulated Power Systems	2017	Acharya Nagarjuna University, Guntur	Supervisor
4	K Ramalingeswara Prasad	Analysis of Wind Energy Conversion System for Grid Interconnection	2017	Acharya Nagarjuna University, Guntur	Supervisor

5	K.Hari Krishna	Optimal Load Frequency Control for Deregulated Power System	2017	Acharya Nagarjuna University, Guntur	Supervisor
6	G.Nageswara Rao	Control Strategies for Multilevel Inverter Base active power filtering using artificial Intelligent Techniques	2017	J.N.T.U, Kakinada	Co-Supervisor
7	Ch.Nagaraja Kumari	Transmission System Security Enhancement using FACTS Devices in Modern Power System	2018	Acharya Nagarjuna University, Guntur	Supervisor
8	N.China Kotaiah	Performance Evaluation of Converter based Compensations for Enhancement of Power Quality	2018	Acharya Nagarjuna University, Guntur	Supervisor
9	J. Srinu Naick	AGC of Interconnected Power System with Distributed Generation by Various Control Approaches	2019	Acharya Nagarjuna University, Guntur	Supervisor
10	N Chaitanya	Power Management Strategies for Interfacing Distributed Generation Units to Micro Grid	2019	J.N.T.U, Ananthapuram	Supervisor
11	G.Vivekananda	Distributed Static Compensators for Power Quality Improvement	2019	Acharya Nagarjuna University, Guntur	Supervisor
12	N.V Malleswari	Optimal Volt/VAR in Radial Distribution System Considering Load Growth and DG Penetrating Uncertainty	2019	Acharya Nagarjuna University, Guntur	Supervisor
13	Nagaiah Mandva	Power Management of Solar/Wind Hybrid System with Bidirectional Converter Controlled by Soft Computing Techniques	2021	Acharya Nagarjuna University, Guntur	Supervisor
14	Vanka Degarajaji	Novel Operation and Control Techniques for Grid Connected Renewable Energy Systems	2021	Acharya Nagarjuna University, Guntur	Supervisor
15	Aswani Kumar Eedara	Finite Control Set Model Predictive Control	2021	JNTU, Kakinada	Supervisor

		Strategies for Power Converter Control of Wind Energy Conversion Systems			
16	M.Venkatesh	Circulating Current Control Strategies in Modular Multilevel Converter with Reduced Number of Sensors	2023	Acharya Nagarjuna University, Guntur	Supervisor
17	Shaik Mohammad Tayyab	Control Techniques for Performance Improvement in Gas Insulated Switchgears by Detection & Mitigation of Partial Discharges	2024	Acharya Nagarjuna University, Guntur	Supervisor

### Research Interests:

✚ Power Electronics & Drives, FACTS Controllers, Power Quality Improvement,

### Grants Received:

S.No.	Scheme	Agency	Coordinator / Co-ordinator	Title of the Project	Year	Amount (Rs:)
01.	MRP	UGC	Principal Investigator	Control Technique for Dual Inverter Fed Open End Winding Induction Motor	2014	9,22,000/-
02	MODROBS	AICTE	Project Coordinator	Modernization of Power Systems Lab	2013	18,85,000/-
03	MODROBS	AICTE	Project Coordinator	Campus Smart Grid for Energy Management	2020	8,81,000/-
04	RPS	AICTE	Co-Investigator	Integrated Monitoring and Controlling of sparsely located Distribution Transformer in Smart Grid Environment	2022	4,61,666/-

## Projects Guided:

- B.Tech Projects – 41 nos
- M.Tech Projects – 14 nos

## PhDs Guiding

Sl. No	Details of the Research Scholar	Name of the University under which PhD is Registered	Present stage of the work
1	Y.Suri Babu Assistant Professor, EEE Dept. RVR & JC College of Engineering,	Acharya Nagarjuna University, Guntur	Pre-PhD exam completed
2	J.S Srinivasa Raju Associate Professor, EEE Dept., Universal College Of Engineering & Technology, Perecharla, Guntur.	J.N.T.U, Kakinada	Pre-PhD exam completed
3	P Ravi Kumar Assistant Professor, EEE Dept., Narasaraopet Engineering College, Narasaraoopet, Guntur Dist.	J.N.T.U, Kakinada	Pre-PhD exam completed
4	Y Ravi Sankar, Lecturer, Institute of Technology, Dire Dawa University, Ethiopia.	Acharya Nagarjuna University, Guntur.	Pre-Talk Completed
5	P.Ramesh, Associate Professor, Bharat Institute of Engineering and Technology, Mangalpally, Ranga Reddy (District), Telangana – 501510.	Acharya Nagarjuna University, Guntur.	Pre-PhD exam completed
6	Karra Jangaiah, Superintending Engineer, CETD, TSGENCO, Paloncha -507115	Acharya Nagarjuna University, Guntur.	Pre-PhD exam completed
7	Ponugoti Rophika Samson	Acharya Nagarjuna University, Guntur.	Pre-PhD exam completed
8	B.Bala Krishna, Assistant Professor, Chalapathi Institute of Engineering and Technology, Lam, Guntur – 522034	Acharya Nagarjuna University, Guntur.	Pre-PhD exam completed
9	Raja Nayak Meghavath	Acharya Nagarjuna University, Guntur.	Pre-PhD exam completed

### Patents Filed & Published: 3 ; Awarded:1

- An Indian design patent entitled "Solar empowered agriculture robot" with application number 362354-001(Filed on 11/04/2022) is awarded on 27/09/2022 and published in Journal number 40/2022 dt:07/10/2022. Dr. K. Swarnasri, **Dr. K. Chandra Sekhar**, Dr. P.V. Kishore Babu & Dr. P. Tripura published.
- An Indian design patent entitled "Compact Washing Machine" with application number 339783-001(Filed on 26/02/2021) is awarded on 13/07/2023 and published in Journal number 28/2023 Dated 14/07/2023. Dr. Raja Reddy, Duvvuru, R.Sireesha, Dr. Luke John Baktha Singh Immaraju, Dr. Bolla Madhusudhana Reddy, Palleti Venkata Kusuma, M. Manikumar Reddy, Kameswara Vasishtha Kumar Kavuturu, Dr. V. Lakshmi Devi, Dr. Varaprasad Janamala, **Dr. Koritala Chandra Sekhar** published.
- An Indian patent entitled "Artificial Intelligence Based Smart Power Grid Management System with Distributed Energy Resources Integration". Date of Publication; 13/10/2023. Application No.202341064451 A
- Indian patent entitled "Integrated Monitoring and Controlling Device for Distribution Transformer" 202041050300 A was published 11-12-2020, filed on 19-11-2020 and AWARDED on 05-04- 2024.

### Guest Lectures given:

- ✚ Delivered Key Note Address and Inaugurated "International Conference on Recent Advances in Electrical and Electronics Engineering and Technology (ICEEET-2017) " Organized by EEE Department, Chalapathi Institute of Engineering And Technology, LAM, Guntur on 25<sup>th</sup> & 26<sup>th</sup> July 2017.
- ✚ Delivered Inaugural Address as a chief guest for the "International Conference on Science, Technology, Engineering and Management (ICSTEM-2017) " Organized by EEE Department, G.V.R and S College of Engineering and Technology, Guntur on 7<sup>th</sup> & 8<sup>th</sup> April 2017.
- ✚ Delivered expert Lecture on "**Conservation of Electrical-Energy-Need of the Hour**" at One day Seminar on Energy Conservation to District Officer's and M.P.D.O's in Guntur District Organized by NREDCAP, Guntur on 2<sup>nd</sup>, February 2013.
- ✚ Power Quality Issues and Technical Challenges during National Level one day Workshop on "Power Quality Improvement and Systems" at Vijaya Institute of Technology for Women, Vijayawada, on 18th, December 2012.
- ✚ Analysis of Electrical circuits & power electronic systems using MATLAB during AICTE-ISTE short-term teacher training programme 15-29<sup>th</sup>, March 2004.

- ✚ DGA of Transformer Oil -- A Diagnostic Tool for Condition Monitoring of Transformers at R.V.R & J.C College of Engineering during the Seminar on Developments and Maintenance of Transformers, 13-4<sup>th</sup>, September, 2002.
- ✚ Infrared Thermal Inspection – A Diagnostic Tool for Condition Monitoring of Transformers at R.V.R & J.C College of Engineering during the Seminar on Developments and Maintenance of Transformers, 13-4<sup>th</sup>, September, 2002.

### **Workshops / Seminars / Courses Participated:**

Participated in Green Audit and Energy Audit in HEI's" conducted IOT Academy, Coimbatore, Tamilnadu, during 29th December 2023.

Participated in One-Day State Level Workshop for Autonomous & NAAC Accredited Engineering and Pharmacy Colleges on Indian Rankings – 2023" Quality Assurance Cell, Andhra Pradesh State Council of Higher Education at Andhra Loyola Institute of Engineering & Technology, Vijayawada, during Quality Assurance Cell, Andhra Pradesh State Council of Higher Education at Andhra Loyola Institute of Engineering & Technology, Vijayawada.

Participated in Atmanirbhar Bharat – Role of New Education Policy" conducted V.R. Siddha-rtha Engineering College, Vijayawada, during 04-05 December 2021.

Participated in One week online AICTE recognized FDP on Power Quality and Harmonics (With Typhoon HIL)" conducted Electrical Engineering Department NITTTR, Chandigarh, during 29th, Nov to 03rd, Dec 2021.

Participated in One week online AICTE recognized FDP on Development of Smart Electric Vehicles as per Indian Scenario (With Typhoon HIL)" conducted Electrical Engineering Department NITTTR, Chandigarh, during 15th, Nov to 19th, Nov 2021.

Participated in one week STTP, ICT mode on "Outcome Based Education and Accreditation" conducted by NITTTR, Kolkata at (Remote Center) R.V.R & J.C College of Engineering, during 24th Sept.2018 to 28th Sept 2018.

Participated in One Day Training program "Effective Utilization of National Programme on Technology Enhanced Learning (NPTEL)" on 7<sup>th</sup> December 2018 conducted by IIT Madras at R.V.R & J.C College of Engineering.

Participated in Faculty Development Programme (FDP201x) on "Pedagogy for Online and Blended Teaching – Learning Process" conducted by IIT, Bombay, during 14th September 2017 to 12<sup>th</sup> October 2017 at R .V.R & J.C College of Engineering, Guntur.

Participated in Faculty Development Programme (FDP101x) on "Foundation Program in ICT for Education" conducted by IIT, Bombay , during 3<sup>rd</sup> August 2017 to 7<sup>th</sup> September 2017 at R .V.R & J.C College of Engineering, Guntur.



Participated in Two week STTP, ICT mode on “Electric Power System” conducted by IIT, Kharagpur at (Remote Center) R.V.R & J.C College of Engineering at (Remote Center), during 12<sup>th</sup> June 2017 to 15<sup>th</sup> July 2017.

Participated in a Two – Week ISTE STTP on “Electrical Power System” conducted by IIT, Kharagpur , during 12<sup>th</sup> June 2017 to 15<sup>th</sup> July 2017 at R.V.R & J.C College of Engineering, Guntur.

Participated in Short Term Course on “Artificial Neural Network & Fuzzy Logic through ICT” conducted by Computer Science & Engineering Department, R.V.R & J.C College of Engineering, Guntur, in Association with NITTTR, Chandigarh, during 24<sup>th</sup> April 2017 to 28<sup>th</sup> April 2017.

Attended the International conference “Smart Electric Grid (ICSEG-2016)” as a session chair for the track Power Electronic Converters conducted by EEE department of K L university, Vaddeswaram, on 22<sup>nd</sup> December 2016.

Participated in one day seminar “Engineering Education & Research Seminar-2016” on 18<sup>th</sup> November 2016, conducted by National Instruments at Hotel Sindoori, Guntur.

Attended the International conference “Smart Electric Grid (ICSEG-2014)” as a session chair conducted by EEE department of K L university, Vaddeswaram, in association with IEEE Hyderabad section during 19<sup>th</sup> to 20<sup>th</sup> September 2014.

Participated in One Day Workshop on Collaboration between Government of Andhra Pradesh and Massachusetts Institute of Technology (MIT) USA – Edx Blended Model Implementation, at BITS, Pilani, Hyderabad Campus on 23<sup>rd</sup> December 2013.

Participated in Three Day Training program “Workshop for Training Resource Persons on Outcome Based Accreditation – Phase-II ” during 26<sup>th</sup> to 28<sup>th</sup> September 2013 conducted by NBA Training Center, V.R Siddhartha Engineering College, Vijayawada.

Participated in One Day Training program “User Conference on Effective Utilization of National Programme on Technology Enhanced Learning (NPTEL) ” on 20<sup>th</sup> September 2013 conducted by IIT Madras.

Participated in One Day Training program “Workshop for Training Resource Persons on Outcome Based Accreditation – Phase-I” on 13<sup>th</sup> September 2013 conducted by NBA Training Center, V.R Siddhartha Engineering College, Vijayawada.

Participated in One Day Training program “INSIGHT-09 (Train the Trainer)” during 6<sup>th</sup> – 7<sup>th</sup> April 2009 conducted by Infosys, Hyderabad.

Participated in Two day Seminar on “Challenges in VLSI Design ” during 23<sup>rd</sup> -24<sup>th</sup> March 2007 at R.V.R & J.C College of Engineering.

Participated in Two day workshop on “Recent Trends in Power Electronics and Drives” during 8<sup>th</sup>-9<sup>th</sup> February 2007 at G.Pulla Reddy Engineering College, Kurnool.

Participated in One day workshop on “TEQIP Non-formal Networking” at NITW Warangal on 8<sup>th</sup> March 2006.

Participated in Three-Day workshop on “Vector Control of Induction Motor” during 20<sup>th</sup>-23<sup>rd</sup> October 2005 at J.N.T.U, Hyderabad.

Participated in Short Term Course on “Computer Applications in Power Systems, Control Systems & Networks” During 15<sup>th</sup> -29<sup>th</sup> March 2004 at R.V.R & J.C College of Engineering.

Participated in Short Term Intensive Course on “Digital Control of Power Electronics Equipment(A laboratory Course)” during 14<sup>th</sup>- 18<sup>th</sup> July 2003 at Indian Institute of Science, Bangalore.

Participated in Seminar on “Developments and Maintenance of Transformers” during 13<sup>th</sup> -14<sup>th</sup> September 2002 at R.V.R & J.C College of Engineering.

Participated in Workshop on “The Failure of Transformers – Issues and Challenges” during 13<sup>th</sup>-17<sup>th</sup> May 2002 at Engineering Staff College of India(ESCI), Hyderabad.

Participated in the UGC Seminar on “Current Computer & Information Trends” during 28<sup>th</sup>-29<sup>th</sup> December 2001 at R.V.R & J.C College of Engineering.

Participated in Short Term course on “Finite Element Method” during 5<sup>th</sup>-6<sup>th</sup> October 2001 at R.V.R & J.C College of Engineering .

#### **Details of Publications:**

<https://scholar.google.com/citations?user=gM3fsIAAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=16318397200>

[https://www.researchgate.net/profile/K\\_Sekhar](https://www.researchgate.net/profile/K_Sekhar)

<https://publons.com/wos-op/researcher/4087345/koritala-chandra-sekhar/>

<https://vidwan.inflibnet.ac.in/profile/178559>

<https://orcid.org/0000-0003-0723-577X>

#### **Memberships of Professional Bodies:**

- ✚ Mellow of IETE
- ✚ Member of ISTE
- ✚ Member of IE(India)
- ✚ Chartered Engineer (India)

## **EVENTS ORGANIZED:**

- ✚ Organized National Level Technical Student Meet “Electrical Talent Contest (E.T.C-2001)” on 18<sup>th</sup> September 2001.
- ✚ Organized “National Level Student Paper Contest-2007” on 27<sup>th</sup> February 2007.
- ✚ Organized Three Day workshop on “Computer Applications to Power Systems using MIPOWER” during 04<sup>th</sup> -06<sup>th</sup> December 2008.
- ✚ Organized National Level Technical Student Meet “ELECTRIC TARANG-2010” on 22<sup>nd</sup> January 2010.
- ✚ Organized Technical Exhibition “OPEN HOUSE “ to high school children & Intermediate students during 9<sup>th</sup> & 10<sup>th</sup> September 2011
- ✚ Organized National Level Technical Student Meet “ELECTRIC TARANG-2011” during 29<sup>th</sup> – 30<sup>th</sup> November 2011.
- ✚ Organized Two Day workshop on “Model Based Design for Power Electronics & Embedded Systems” during 12<sup>th</sup> -13<sup>th</sup> December 2013.
- ✚ Organized National Level Technical Student Meet “ELECTRIC TARANG-2015” on 28<sup>th</sup> February 2015.
- ✚ Organized National Level Technical Student Meet “ELECTRIC TARANG-2016” on 11<sup>h</sup> February 2016.
- ✚ Organized National Level Technical Student Meet “ELECTRIC TARANG-2017” on 17<sup>th</sup> & 18<sup>th</sup> February 2017.
- ✚ Organized Two Day workshop on “Industry Practices in Power Systems Engineering” during 30<sup>th</sup> November – 1<sup>st</sup> December 2018.

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