



POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO COLLEGE OF ENGINEERING & TECHNOLOGY

SPONSORED BY SKPVV HINDU HIGH SCHOOLS COMMITTEE, Estd : 1906

APPROVED BY AICTE, NEW DELHI, AFFILIATED TO JNTU KAKINADA

ACCREDITED BY NAAC, NBA for B.TECH PROGRAMS in CSE, ECE & EEE, ISO 9001:2015 CERTIFIED

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COLLEGE CODE : **PSCV** [EAMCET, ECET, ICET, POLYCET]



FACULTY PROFILE

Dr.Y.RAJENDRA BABU

Flat no : 924, 9th Block,
Lotus Akash Apartment,
3rd floor, Lotus Landmark,
Ayodhyanagar,
Vijayawada.
Andhra Pradesh



Mobile: 9290509415

Email: rajendrababu77@gmail.com

Experience:

Teaching: 20 years

Research: 8 years

Career Profile

Year	Organization	Role
2000	S.E.S.Govt Aided polytechnic, Siruguppa, Bellary(Dt.)	Lecturer in Electrical Eng.
2001-2004	St.johns College of Engg. & Tech, Yemmiganur, Kurnool(Dt.)	Assistant Professor
2004-2005	MeRITS Udayagiri, Nellore	Assistant Professor
2005-2007	Narayana Engg. College Nellore.	Assistant Professor
2007-2008	PBR Viswodaya institute of Tech. & Science, Kavali Nellore.	Assistant Professor
2008-2009	PBR Viswodaya institute of Tech. & Science, kavali Nellore.	Associate Professor
2009-2011	PBR Viswodaya institute of Tech. & Science, Kavali Nellore.	Associate Professor and Head of the Department
2011-Till date	PSCMR college of Engg. & Tech., Vijayawada.	Professor and Head of the Department

Educational Qualifications

Degree and Date	Board / University	Date of Completion	% Marks
PhD	Rayalaseema University	2019	Awarded
M.Tech	JNTUH	2008	72.4%
B.E	Bangalore University	2000	65.41%
D.E.E	BTE-Bangalore	1995	66.27%
S.S.C	KSEEB-Bangalore	1992	62.8%

Title of PhD Thesis: "Parallel Connected Active Power Filters with Multifunctioning Feature of DG Integration and Harmonic Compensation"

Subjects handled:

- AI Techniques
- Special Electrical Machines
- Control Systems
- HVDC Transmission
- Reliability Engineering & Applications to Power Systems
- Power Systems Operation and Control
- Electrical Machines-I
- Electrical Machines-II
- Electrical Machines-III
- High Voltage Engineering
- Network Theory
- Electrical Measurements
- Neural Networks and Fuzzy Logic

Affiliation to Professional Bodies

- Life member of ISTE (LM 62731)
- Life member of ISSE (LM03709)
- Life member of IAENG(163668)
- Life member of IEEE(93533792)

Publications

- Y.Rajendra Babu, Dr.K.Sudhaker Reddy "Genetic Algorithm A Stochastic Approach For Optimal Load Dispatch" In International Journal of Engineering Science & Advanced Technology Volume-2, Special Issue-1, 143 – 148, Issn: 2250–3676
- Y.Rajendra Babu, Dr.K.Sudhaker Reddy "Optimal Load Dispatch Problem to Reduce Power wastage using Evolutionary Programming" in International Journal Of Engineering Science & Advanced Technology Volume-2, Issue-4 , 1152 – 1155,ISSN: 2250–3676
- Y.Rajendra Babu, Dr.I.Prabhaker Reddy, L.Venkata Narasimha Rao, "Evolutionary Algorithm A Stochastic Approach For Optimal Load Delivery" in International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 12, December 2012

- Y.Rajendra Babu, Dr.M.Venugopal Rao “Application of Genetic Algorithm For Optimal Load Dispatch With Non Smooth Cost Equations (CCPP)” in International Journal of Engineering Research & Technology (IJERT) Vol. 1 Issue 9, November- 2012, ISSN: 2278-0181
- Y.Rajendra Babu, Dr.K.Sudhaker Reddy “Design of d-q Domain Control Strategy for Static Synchronous Series Compensator” in International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 4, April – 2013, Issue 4, April – 2013 ISSN: 2278-0181
- Y.Rajendra Babu, Dr.K.Sudhaker Reddy “Implementation of pattern search process to power system economic load delivery” in International Journal for Research in Science & Advanced Technologies Issue-1, Volume-1, 030-034, ISSN 2319-2690, July-august 2012.
- Y.Rajendra Babu, Dr.A.Ramanjaneyulu, K.Narendra, “Power Flow Enhancement With Better Control Strategy By DPC and Fuzzy Logic On UPFC” in IJOER, Vol. 1, Issue.2,2013
- Y.Rajendra Babu, Dr.C.Srinivas Rao “A Novel Fuzzy Controlled Grid-Tied PV Fed H-Bridge Multilevel Inverter for Compensation of Unbalanced Situation” in Journal of Advanced Research in Dynamical & Control Systems, 11-Special Issue, July 2017, ISSN 1943-023X
- Y.Rajendra Babu, Dr.C.Srinivas Rao “Harmonic Mitigation with Parallel APF for Industrial Type Non-Linear Loads” in International journal of control theory and applications ISSN:0974-5572, Volume-10, number31, 2017
- Y.Rajendra Babu, Dr.C.Srinivas Rao “Distributed Generation Inverter as APF in Dual APF DG Interfacing Scheme” in International Journal of Power Electronics and Drive System (IJPEDS), Vol. 8, No. 3, September 2017, pp. 1441~1454, ISSN: 2088-8694, DOI: 10.11591/ijpeds.v8i3.pp.1441-1454.
- Y.Rajendra Babu, Dr.C.Srinivas Rao “Performance analysis of instantaneous harmonic power theory based active power filter under different loading conditions” in International Journal of Electrical Electronics Engineering Research (IJEEER) ISSN(P): 2250-155X, ISSN(E): 2278-943X.
- Y.Rajendra Babu, Dr.C.Srinivas Rao “A Critical Evaluation of Power Quality Features using Dual APF under Grid Interfaced DG Scheme” Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No. 2, August 2017, pp. 322 ~ 337, DOI: 10.11591/ijeecs.v7.i2.pp.322-337
- Y.Rajendra Babu, Dr.C.Srinivas Rao “Distributed generation integration to transmission grid controlled with d-q theory” ARPJ Journal of Engineering and Applied Sciences, Asian Research Publishing Network (ARPJ).
- Dr.Y.Rajendra Babu, P.Manoj Kumar, K.Narendra, and K.srinivas “A Novel Three Port Converter for Induction Motor Drive System” Alochana Chakra UGC Care Journal, Vol. 9, Issue 4, April 2020, pp.4219-4227, ISSN:2231-3990.
- Dr.Y.Rajendra Babu, P.Manoj Kumar, K.Narendra, “A Novel Broad Range Interleaved Power Factor Converter for Brush Less DC Motor” Purakala UGC Care Journal Vol. 31, Issue 20, April 2020, pp.228-234.

Papers presented at National / International Conferences

- Presented a paper titled “Real and Reactive Power Flow Control in a Meshed Transmission Network Using UPFC” at International Conference on Emerging Trends in Electrical and Power Engineering “ICEEPE-2016” held on 4th April 2016 at NEC, Nellore.
- Presented a Paper titled “SEPIC Converter with FLC based MPPT and without MPPT in Photovoltaic System” at 5th International Conference on “Innovations in Electrical, Electronics & Communication Engineering “ICIECE- 2016” held during 8th and 9th July 2016 at Guru Nanak Institute of Technology, Hyderabad.
- Presented a paper titled “ Analysis of Grid Tied Distributed Generation and Power Quality Enhancement using Dual SAPF” at International Conference on Energy, Communication, Data Analytics and Soft Computing “ICECDS-2017” held during 1st and 2nd August -2017 at SKR Engineering College Chennai.
- Presented a Paper titled “A Novel Fuzzy Controlled Grid Tied PV fed H-Bridge Multilevel Inverter for Compensation of Unbalanced Situation” at First International Conference on Contemporary Engineering and Technology “ICCEAT-2017” held on 31st March and 1st April 2017 at PSCMRCET, Vijayawada.
- Presented a paper titled “Distribution Generation Integration to Transmission Grid Controlled with d-q theory” at First International Conference on Contemporary Engineering and Technology “ICCEAT-2017” held on 31st March and 1st April 2017 at PSCMRCET, Vijayawada.
- Presented a paper titled “Power Quality Improvement using Intelligent Control based Distribution Generation Inverter” at First International Conference on Contemporary Engineering and Technology “ICCEAT-2018” held on 2nd and 3rd April 2017 at PSCMRCET, Vijayawada.

Conferences/ Seminars/ Workshops/ Guest Lectures Attended

- 3 days National level workshop on “Distribution & Automation- Recent trends (DART2005)” organized by JNTUCE, Anantapur during 28-10-2005 to 30-10-2005.
- 4 days National Workshop on “Training for Trainers” organized by Aurora Engineering College, Bhongir during 03-12-2007 to 06-12-2007
- 2 days workshop on “Awareness on Indian Electricity Act” organized by JNTUCE Anantapur during 12-09-2008 to 13-09-2008.
- 1 day workshop on “Recent trends in Power Transmission and Distribution” organized by P.B.R.VITS, Kavali on 28-01-2009.
- 1 day national level seminar on “Energy Auditing and Conservation” organized by NEC, NELLORE on 28-01-2010.
- 2 days workshop on “Applications of PSCAD in electrical engineering” organized by Department of EEE, LBRCE, MYLAVARAM during 20-02-2010 to 21-02-2010.
- 2 days workshop on “Innovative teaching techniques organized by KBN College, Vijayawada during 17-05-2011 to 18-05-2011.
- One day faculty interaction program and industrial visit to Efftronics, Vijayawada on 20-08-2012.
- Two day Faculty development workshop for college teachers organized by KBN College, Vijayawada during 15-03-2013 to 16-03-2013.

- 5 day FDP on “English communication skills” organized by PSCMRCET during 03-06-2013 to 07-06-2013.
- One day FDP on “Teaching pedagogy” by Indian school of business, Bangalore on 19-08-2014.
- One day FDP on “e- resource development and deployment organized by Globarena technologies pvt. Ltd., in association with JNTUK at LBRCE, Mylavaram on 28-08-2014.
- 1 day IEEE National Workshop on “Understanding 5g: Perspectives on future technological advancements in wireless communication” organized by department of ECE, PSCMRCET, Vijayawada on 08-08-2015.
- A three day FDP on “Role of Lab view in developing engineering solutions” organized by department of EEE, MIC college of technology, Vijayawada during 26-11-2015 to 28-11-2015.
- Three day workshop on “Outcome Based Education and Accreditation”, organized by JNTUK, Kakinada during 08-06-2016 to 10-10-2016.
- One day national seminar on “MATLAB and SIMULINK for engineering education” organized by MATH Works India pvt. Ltd., Bangalore on 05-02-2016.
- 5 days workshop on “Industrial Automation training” by Automation and control systems, Pune from 19-09-2016 to 23-09-2016.
- Five day FDP Program on “Magical teacher” organized by Advanced Minds, at PSCMRCET during 09-11-2016 to 13-11-2016.
- 2 Day national Seminar on “Role of Smart Grids in Smart cities: Challenges and Solutions” organized by department of EEE, MIC college of technology, Vijayawada during 15-09-2017 to 16-09-2017.
- Five day FDP Program on “Instructional Design & Delivery” organized by PSCMRCET during 04-06-2018 to 08-06-2018.
- One day hands on workshop on “ARC GIS Web maps” organized by ESRI at PSCMRCET on 14-11-2018(GIS DAY 2018).
- One day national workshop on “Recent Trends in Electrical Engineering(RTEE-2018)” organized by department of EEE, VRSEC, Vijayawada under Margdarshan scheme AICTE, New Delhi on 07-12-2018.
- 5 day online FDP on “SCILAB and its applications to electrical engineering” organized by AARUPADI VEEDU Institute of technology in association with IIT Bombay during 20-04-2020 to 24-04-2020
- 5 day online FDP on “SCILAB” organized by PSCMRCET, Vijayawada in association with Spoken Tutorial, IIT Bombay-PMMMNMTT during 29.04.2020 to 03.05.2020
- 1 day online FDP on “Machine learning for beginners” organized by Satyabhama Institute of Science and Technology on 9-05-2020.
- One week online FDP on “E-Learning”, Organized by Eswar college of Engineering, Narasaraopeta from 11-05-2020 to 15-05-2020.
- One week National level online FDP on “Innovations to Academicians” organized by Ramachandra College of Engineering and Technology, Eluru from 11-05-2020 to 16-05-2020
- Two day national level online FDP on “Switched Power Converters” organized by North storm Academy held on 13-05-2020 and 14-05-2020.
- One week online FDP on “Promoting quality culture in technical institutions” organized by AISSMS college of engineering, PUNE from 25-05-2020 to 29-05-2020.

- 5 day online FDP on “Micro grid, Electric vehicles and Allied areas (MGRVAA-20)” organized by Kakatiya institute of Science and Technology, Warangal, during 1-06-2020 to 5-6-2020.

Conferences/ Seminars/ Workshops/ Guest Lectures Organized

- Arranged industrial visits to KUMAR pumps & motors Tenali, 220KV/33KV/11KV Substation Gunadala, Electric Loco shed, Efftronics Pvt. Ltd., JOCIL Pvt. Ltd., KCP sugars, Eurth Techtronics Pvt. Ltd., Dr.NTTPS Power plant, and Srisailam Hydel power plant.
- 5 days Technical Workshop on “PLC and SCADA” by ACS, Pune during 28-01-2014 to 1-2-2014.
- Expert lecture on “Role of Semiconductor and VLSI technology in Defense applications” by Dr.V.N.Mani, Center of materials for Electronics technology, Department of E&IT, Hyderabad on 5/9/2015
- 5 days Technical Workshop on “PLC and SCADA” by ACS, Pune during 19-09-2016 to 23-09-2016.
- A 3 day Technical training on “SCI LAB & its applications to Electrical Engineering” during 30-11-2016 to 2-12-2016.
- Expert lecture on “The Role of DVRs and Static Exciters in Super Critical Thermal Power Plant” by Er.B.Raju, ADE, APGENCO, Paloncha on 20/7/2017.
- Expert lecture on “Simple Yet Powerful Ideas for India’s Power Sector” by Dr.Hippu salt Kristle Nathan, professor, IISC, Bangalore on 8/12/2017.
- Expert lecture on “Transmission Planning with Renewables” by Dr.Radha Soorya, Associate director, Navigant consulting Inc., USA on 28-12-2017. A two day national level technical project expo-“Expedition-2018” is organized from 30-1-2018 to 31-1-2018.
- 2 day Workshop on “Design of Solar Energy Photo Voltaic Systems” by GES Technologies, Hyderabad from 26/02/2018 to 27/02/2018.
- 6 days Technical Workshop on “PLC and SCADA” in association with APPSSDC during 16-07-2018 to 21-07-2018 A two day National Level Technical Workshop on “Trouble Shooting and Servicing of Electrical Drives & Appliances” during 17-08-2018 to 18-08-2018
- A 5 day technical workshop on IOT in association with APSSDC from 26-11-2018 to 1-12-2018.
- Expert lecture on “The Design & Analysis of a Grid Connected Photo Voltaic Power System” by Dr.V.Madhusudhana Reddy, Hi-tech power consultants, Chennai on 29/11/2018.
- 5 day Workshop on “Design of Solar Energy Photo Voltaic Systems” by GES, Hyderabad from 06/03/2019 to 10/03/2019.
- Guest Lecture on “Teaching strategies for 21st Century” by Dr.DVSS Siva Sarma, Professor and Dean, Chair person of IEEE Hyderabad section, NIT Warangal on 20-11-2019.
- A two day National Level Technical Workshop on “Trouble Shooting and Servicing of Electrical Drives & Appliances” during 06-02-2020 to 07-02-2020.

Significant Achievements

- Acted as a Chairperson for District Level Project expo “POLYTECHFEST-2017” organized by Department of Technical Education, Government of Andhra Pradesh during 08-09-2017 to 09-09-2017.
- Honored as a Chairperson for the Second National Level Conference on “Emerging Trends in Electrical Technology” NCEE-2017 at Andhra Loyola Institute of Engineering and Technology, Vijayawada.
- Certificate of Appreciation is awarded in the year 2015 and 2018 as “Esteemed Employee of the Institution” in recognition of continued commitment and valuable contribution to the organization.
- International Research Journal Reviewer for IJMTE, JASC, IJEER and IJETAE international journals.
- Certified with AICTE approved “Foundation program in ICT for Education conducted” by IIT Bombay from September 13, 2018 to October 18, 2018
- Established Eurth Techtronics Pvt. Ltd Incubation centre in the college in the year 2018 for active involvement of the students in developing projects. Incubation centre was inaugurated by Dr.P.Ravi kumar, NRT affairs, Adviser to Government of Andhra Pradesh.
- Acted as Convener for Anti Ragging committee since 2014-2019 in achieving Ragging free campus.
- Department is Accredited by NBA in the year 2019 under my headship.
- Authored as Chief Editor for the Newsletters “*Vidyuthvyoma*” for the academic years 2017, 2018, 2019 and 2020.
- Awarded as “*Young Researcher*” award by International Association of Research and Developed Organization, Ghaziabad on 15th March 2020.
- An innovation patent titled “Digital signal processing technique in wireless sensor and actuator networks for long range environmental monitoring” is applied in Australian Government, IP Australian (July 2020, waiting for approval).

Dr.Y.Rajendra Babu
Signature