



**POTTI SRIRAMULU CHALAVADI MALLIKHARJUNA RAO
COLLEGE OF ENGINEERING & TECHNOLOGY**

Sponsored by: SKPVV Hindu High School Committee, Estd: 1906

(Approved by AICTE Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified

Raghavareddy Street, Kothapeta, Vijayawada-520001.

Andhra Pradesh, India. Phone: 0866 -2423442.

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FACULTY PROFILE

K.LAKSHMI GANESH

S/o K.SeshaGiriRao

DR NO: 42-10-12, Block No-11,

Luna Centre, Azithsingh Nagar,

Vijayawada-15,

Krishna (Dt)-520015, AP. Contact: 9491586511

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CAREER OBJECTIVE

Intend to build a career with a leading corporation in a hi-tech environment. Realize my highest potential working as a key player in this challenging and creative environment.

EDUCATIONAL QUALIFICATIONS:

DEGREE	SCHOOL/COLLEGE	BOARD/UNIVERSITY	YEAR OF PASSING	PERCENTAGE
M.Tech (PE)	Sri Vasavi Engineering College	JNTUK, Kakinada	2012	80.71%
B.Tech(EEE)	Anurag Engineering College	JNTUH, Hyderabad	2009	75.45%
DEEE	A.A.N.M & V.V.R.S.R Polytechnic, Gudlavalleru	State Board of Technical Education	2006	86.47%
Class X	Vivekananda Centenary High School, Vijayawada	State Board of Secondary Education	2003	81.6%

PROFESSIONAL EXPERIENCE:

S. No	Position Held	Name of the Organization	Period		EXPERIENCE
			From	To	
1	Assistant Professor	PSCMR College of Engineering & Technology, Vijayawada	Nov 2017	Till Date	1 Year 4 Months
2	Assistant Professor	Vishnu Institute of Technology, Bhimavaram (Ratified by JNTUK)	May 2013	May 2017	4Years
3	Assistant Professor	Narayana Engineering College, Nellore	June 2012	April 2013	10 Months

Other Qualifications/Membership:

- Member of Institution of Electrical and Electronics Engineers (MIEEE) with Membership Number: IEEE Member # 95616174
- Member of Indian Society for Technical Education (MISTE) with Membership Number: LM126149.
- Member of the Science and Engineering Institute (SCIEI) with Membership Number: 20151112001.
- Member of International Association of Engineers (MIAENG) with Membership Number: 131053 on 3rd June 2013.
- Member of Institute Research Engineers and Doctors (IRED) with Membership Number: SM10100060634 on 29th Jan 2019.
- Member of Teaching and Education Research Association (TERA) with Membership Number: TERA-M19857 on 14th March 2019.
- Member of International Computer science and Engineering Society (MICSES) with Membership Number: Membership ID #3733 on 12-03-2019.

Acted as NBA & NAAC Criteria Co-ordinator:

- I am NBA Criteria-III Co-ordinator in Vishnu Institute of Technology.
- I am NAAC Criteria-I Co-ordinator in Vishnu Institute of Technology.
- I am NBA Criteria-VIII Co-ordinator in Sri PSCMR College of Engineering and Technology.
- I am NBA Criteria –VI Co-ordinator in Sri PSCMR College of Engineering and Technology.

Subjects and Labs Handled:

B.Tech Subjects: Electrical Machines-III, Electrical Distribution Systems, , Utilization of Electrical Energy, Electrical circuit Analysis-II, Switching Theory and Logic Design, Basic Electrical and Electronics Engineering for Civil and Mechanical Engineering, Network Analysis for Electronics and communication Engineering, Electrical and Mechanical Technology for Electronics and communication Engineering, Electrical and Electronics Engineering for Computer Science Engineering (JNTUA).

PG Subjects: FACTS, RTCPS

Labs: Electrical Machines-I Lab, electrical Machines-II Lab, Electrical circuits Lab, Electrical Simulation Lab, Power Electronics Lab, Electrical and Electronics Engineering lab for Mechanical Engineering.

Research Publications / Presentations:

Book Chapters & Volumes [2]

1. G.Satyanarayana, **K. Lakshmi Ganesh** "*Grid Integration of Hybrid Generation Scheme for Optimal Switching Pattern Based Asymmetrical Multilevel Inverter*" International Conference on Power Electronics & Renewable Energy Sources (ICPERES), 25th & 26th April 2014 published in Springer LNEE Series, Rajalakshmi Engineering College, Tamilnadu, (**pp-295-303**),**DOI:** https://doi.org/10.1007/978-81-322-2119-7_30, **Print ISBN**978-81-322-2118-0; **Online ISBN**978-81-322-2119-7) (**PUBLISHED IN SCOPUS INDEXED**).
2. G. Satyanarayana, **K. Lakshmi Ganesh** "*Tuning a Robust Performance of Adaptive Fuzzy-PI Driven DSTATCOM for Non-Linear Process Applications*" 18th-20th Decemeber 2014, Bhubaneswar, 5th International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2014) & Fuzzy and Neural Computing (FANCCO 2014), Springer LNCS Series) (**pp-523-533**), **DOI:**https://doi.org/10.1007/978-3-319-20294-5_46, **Print ISBN:** 978-3-319-20293-8 **Online ISBN:** 978-3-319-20294-5. (**PUBLISHED IN SCOPUS INDEXED**).

International Conferences [8]

1. **K.Lakshmi Ganesh** and others "*A Newly Designed Asymmetrical Multi-Cell Cascaded Multilevel Inverter for Distributed Renewable Energy Resources*" 2nd International Conference on Emerging Trends in Engineering, Science and Management (ICETESM – 2018), R.G.M College of Engineering and Technology, Kurnool, December 21st & 22nd 2018. This paper published in International Journal of Recent Technology and Engineering (IJRTE) **Volume - 7, Issue- ICETESM, March 2019, ISSN: 2277-3878, pages-248-255. (IJRTE is Scopus International Journal and Impact factor - 5.11)**
2. Satyanarayana G, **K.Lakshmi Ganesh** "*Incorporate of FB-MMCs converter topologies for Hybrid PV/FC based EV Applications*" ICSGT-2015, Amrita University, Coimbatore, August 6th-8th 2015. (<https://doi.org/10.1016/j.protcv.2015.10.028>) (Scinedirect.com, Elsevier **Procedia Technology Volume 21, 2015, pages-271-278**).
3. M.Vijaya Krishna, G. SatyaNarayana, **K. Lakshmi Ganesh**, D. Ravi Kiran, "*THD Optimization of Sequential Switching Technique Based Hybrid IPD Modulation Scheme for CMLI*" ICSEMR, Vel Tech University, Avadi, Chennai 27th to 29th Nov 2014. (**DOI:** [10.1109/ICSEMR.2014.7043573](https://doi.org/10.1109/ICSEMR.2014.7043573)) (**INSPEC Accession Number:** 14935116). (**PUBLISHED IN SCOPUS INDEXED**)
4. K. Vamshi Krishna Varma, Kalahasti Sirisha, G. Satyanarayana, **K. Lakshmi Ganesh** "*Optimal PWM Strategy for 11-Level Series Connected Multilevel Converter Using Hybrid PV/FC/BESS Source*" International Conference on Circuit, Power and Computing Technologies [ICCPCT-2014], Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay, Kanyakumari district, Tamilnadu. 20th & 21st March 2014. (**DOI:** [10.1109/ICCPCT.2014.7055042](https://doi.org/10.1109/ICCPCT.2014.7055042)) (**INSPEC Accession Number:** 14968101). (**PUBLISHED IN SCOPUS INDEXED**)
5. Satyanarayana G, **K. Lakshmi Ganesh**, Narendra Kumar Ch and Vijaya Krishna M "*A Critical Evaluation of Power Quality Features Using Hybrid Multi-Filter Conditions Topology*", IEEE International Conference on Green Computing, Communication and Conservation of Energy (ICGCE-2013), RMD Engineering College, Tamil Nadu, 12th - 14th Dec 2013. (**DOI:** [10.1109/ICGCE.2013.6823530](https://doi.org/10.1109/ICGCE.2013.6823530)) (**INSPEC Accession Number:** 14349563). (**PUBLISHED IN SCOPUS INDEXED**)
6. G. Satyanarayana, K.N.V Prasad, G. Ranjith Kumar, **K. Lakshmi Ganesh**, "Improvement of Power Quality by Using Hybrid Fuzzy Controlled Based IPQC at Various Load Conditions" IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS-2013), pp.1243-1250, 10-12 April 2013. (**DOI:** [10.1109/ICEETS.2013.6533565](https://doi.org/10.1109/ICEETS.2013.6533565)) (**INSPEC Accession Number:** 13582744).

(PUBLISHED IN SCOPUS INDEXED)

7. **K. Lakshmi Ganesh**, G. SatyaNarayana, M.Vijaya Krishna, M .SaiSesha, T. Suresh Kumar “A New Switching Pattern Selection Scheme for Three Phase 21 Level Multilevel Inverter Fed BLDC Drive Application” International Conference on Knowledge Collaboration of Engineering (ICKCE-2014), Kathir College of Engineering, Coimbatore, 24th& 25th Jan 2014.
8. G. Satyanarayana, **K. Lakshmi Ganesh** “Harmonic Distortion Optimization of Generalized A-Symmetrical Series/Parallel Multilevel Converter with Fewer Switches” International Conference on Industrial Engineering Science and Applications (IESA-2014, Springer Journal), National Institute Of Technology, Durgapur, West Bengal, 30th Apr 2014.

International Journals [20]

1. **K. Lakshmi Ganesh** and others published a paper on “Performance of Symmetrical and Asymmetrical Multilevel Inverters” in the journal of IJMER, Vol.2, Issue.2, Mar-Apr 2012, pp-1819-1827, (ISSN: 2249-6645).
2. **K. Lakshmi Ganesh** and others published a paper on “Performance of Single Phase and Three Phase Symmetrical and Asymmetrical Multilevel Inverters” in the journal of IJAIR, Volume 1, Issue 4, September 2012, pp-85-95, (ISSN: 2278-7844).
3. **K. Lakshmi Ganesh** and others published a paper on “Power Quality improvement by using 7-level Multi-string APF to interfacing to Distribution Generation system” in the journal of IJEA, Volume 1, Issue 3, January 2013, pp-38-43, (ISSN: 2320-0804)
4. G. Satyanarayana, **K. Lakshmi Ganesh** and others published a paper on “Realization of Hybrid Active Power Filter Applied to BLDC Motor Drive Using Dual Instantaneous Power Theory” in the journal of IJEA, Volume 1, Issue 3, January 2013, pp-31-37, (ISSN: 2320-0804).
5. G. Murali Krishna, V.V.N.Murthy and **K. Lakshmi Ganesh** published a paper on “THD Analysis of Symmetrical and Asymmetrical Cascaded H-bridge Multilevel Inverters with PV Arrays” in the journal of IJAIR, Volume 1, Issue 4, September 2012, pp-115-119, (ISSN: 2278-7844)
6. B. Jaya Babu, CH. Rajesh Kumar, **K. Lakshmi Ganesh** and others published a paper on “Challenges in System Integration of Distributed Generation (DG) and Analysis of Various Faults with and without DG” in the journal of IJAIR, Volume 1, Issue 4, September 2012, pp-140-147, (ISSN: 2278-784).
7. U. IndooNiehaarika, P. Alekya Rani, **K. Lakshmi Ganesh** published a paper on “A New Hybrid Multilevel Inverter With Reduced Number Of Switches” in the journal of IJIRD, Vol 2 Issue 3, March, 2013, (ISSN: 2278 – 0211 (Online)).
8. K.Sudheer Kumar, E.Mohan, CH.Rajesh Kumar and **K.Lakshmi Ganesh** published a paper on “New Multilevel Inverter Topology with Reduced Switching Devices for Hybrid Electric Vehicles” in the journal of IJSER, Volume 4, Issue 3, March-2013, (ISSN 2229-5518).
9. Y. Vijayanand, U. SreeKrishnakanth, CH. Rajesh Kumar & **K. Lakshmi Ganesh** published a paper on “New Multilevel Cascaded Pwm Inverter Topology For Hybrid Electric Vehicle Drive” in the journal of International Journal of Electrical and Electronics Engineering (IJEEE), Vol. 2, Issue 2, May 2013, 27-40 © IASET, (Impact Factor-2.48), (ISSN 2278-9944).
10. **K. Lakshmi Ganesh**, M.Balaji& K. DurgaPrakash published a paper on “A Novel Simplified Single-Phase Cascaded Multistring and H-bridge Multilevel Inverter” in the journal of International Journal Of Advanced Research In Electrical, Electronics And Instrumentation Engineering(IJAREEIE), Volume 2, Issue 8, August 2013, pp-3649-3665 (Impact Factor-1.686), ISSN (Print) : 2320 – 3765, ISSN (Online): 2278 – 8875

11. G. Lakpathi, S. Manohar Reddy, **K. Lakshmi Ganesh**, G. Satyanarayan published a paper on “*An Effective High Step-Up Interleaved DC-DC Converter Photovoltaic Grid Connection System*” in the journal of International Journal of Soft Computing and Engineering (IJSCE), Volume-3 Issue-4 on September 05, 2013, pp-156-162, (Impact Factor-1.177), (ISSN: 2231-2307).
12. G.Gopal, B.Shankaraiah, M.Chinnalal, **K.Lakshmi Ganesh**, G.Satyanarayana and D.SreenivasaNaik published a paper on “*A New topology of Single-Phase Seven-Level Inverter with Less Number of Power Elements for Grid Connection*” in the journal of International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-3, Issue-4, September 2013, pp-79-84, (Impact Factor-1.27), (ISSN: 2278-3075).
13. G. Sri HariPriya, **K. Lakshmi Ganesh**, G. Satyanarayana published a paper on “*Enhancement of Harmonics in a Grid Connected Advanced Three-Phase Multilevel Inverter with Hybrid Co-Generation Scheme*” in the journal of International Journal of Informative and Futuristic Research (IJIFR), Volume-2, Issue-5, January 2015, pp-1201-1214 (Impact Factor-3.059), (ISSN (online): 2347-1697).
14. **K. Lakshmi Ganesh** and others published a paper on “*A Novel 65 Level Asymmetric Multi-Cell Cascaded Multilevel Inverter*” in the journal of International Journal of Creative Research Thoughts (IJCRT), Volume-6, Issue-1, March 2018, pp-1303-1311 (Impact Factor-5.97 and UGC approved Journal), (ISSN: 2320-2882).
15. **K. Lakshmi Ganesh** and others published a paper on “*A Novel Hybrid-Fuzzy Controllers Based IUPQC for Enhanced Power-Quality Features*” in the journal of Applied Science and Computations (JASC), Volume-6, Issue-3, March 2019, pp-1397-1408 (Impact Factor-5.8, UGC APPROVED JOURNAL - 41238 and An ISO 7021 : 2008 Certified Journal), (ISSN: 1076-5131).
16. **K. Lakshmi Ganesh** and others published a paper on “*Performance Evaluation of Novel Grid-Tied 21-Level Asymmetrical MLI Topology Using Advanced PWM Methodologies*” in the journal of Applied Science and Computations (JASC), Volume-6, Issue-3, March 2019, pp-1375-1383 (Impact Factor-5.8, UGC APPROVED JOURNAL S.I. NO- 41238 and An ISO 7021:2008 Certified Journal), (ISSN: 1375-1383).
17. P. Manoj Kumar, K. Narendra and **K. Lakshmi Ganesh** published a paper on “*MLI With Reduced Switches For Induction Motor Drive Applications*” in the International journal of Management Technology and Engineering (IJMTE), Volume-9, Issue-3, March 2019, pp-3262-3270 (Impact Factor – 6.3, UGC APPROVED JOURNAL –S.I.NO- 45550 and An ISO 7021:2008 Certified Journal), (ISSN: 2249-7455) and **(DOI:16.10089.IJMTE.2019.V9I3.19.27835)**
18. Dr.V.Praveen, **K. Lakshmi Ganesh** and V.Rajesh, published a paper on “*Power Quality Control of Voltage and Load Sharing in DC Distribution Systems with Three Phase AC Machines*” in the Journal of Emerging Technologies and Innovative Research (JETIR), Volume-6, Issue-3, March 2019, pp-268-273 (Impact Factor – 5.87, UGC APPROVED JOURNAL –S.I.NO- 63975,(ISSN: 2349-5162).
19. K. Narendra, **K. Lakshmi Ganesh** and P. Manoj Kumar, published a paper on “*Bridgeless SIMO Converter Performance Evolution While Using For BLDC Drive & DC Shunt Motor Applications*” in the International Journal of Research (IJR), Volume-8, Issue-3, March 2019, pp-1044-1051 (Impact Factor – 5.7, UGC APPROVED JOURNAL –S.I.NO- 63072 and An ISO 7021:2008 Certified Journal (ISSN: 2236-6124) and Scopus Suggested Journal ID:10J6CF07B9446F97. **(DOI:16.10089.IJR.2018.V8I3.285311.234940).**
20. **K. Lakshmi Ganesh**, K. Narendra and Dr.V.Praveen, published a paper on “*A Single Phase Newly Proposing 85 Level Asymmetric Multi-Cell Cascaded Multilevel Inverter with Reduced Number of Switches*” in the International Journal of Research in Electronics and Computer Engineering (IJRECE), Volume-7, Issue-1, January-March 2019, pp-1928-1933 and UGC APPROVED JOURNAL.

Workshops and FDP attended:

1. Attended one day a handson workshop on “Arc GIS Web Maps” organized by PSCMRCET, Vijayawada-1.
2. Attended 5 Day FDP on “**Instructional Design and Delivery**” organized by Department of ME, PSCMR College of Engineering & Technology during 4th - 8th June 2018.
3. Attended One week National Level FDP on “**Modern Control of Electric Drives**” organized by Department of EEE, Shri Vishnu Engineering College for Women (Autonomous) during 12th -17th Sep 2016.
4. Attended One week National Level FDP on “**Computational Tools for Electrical Systems**” organized by Department of EEE, Shri Vishnu Engineering college for Women (Autonomous) during 25th -30th July 2016.
5. Attended a Two Day Workshop on “**Advanced Software’s for Power System Simulation**” organized by National Institute of Technology, Warangal, Telangana state, India, held during 21st&22nd Feb, 2015
6. Attended a Two Day Workshop on “**Recent advances in Electrical Engineering**” organized by Vishnu Institute of Technology, Vishnupur, Bhimavaram-534202, held during 9th&10th Feb, 2015.
7. Attended a Two Day Workshop on “**Optimization Techniques and its Practical Applications using MATLAB**” organized by Kongu Engineering College (Autonomous) Perundari, Erode, Tamilnadu, held during 1st -2nd September 2014.
8. Attended a Two Day Faculty Development Program on “**Replication of Electromagnetic Fields**” Using ANSOFT software organized by Vishnu Institute of Technology, Bhimavaram, held during 21th-22th Feb-2014.
9. Attended a Three Days Workshop on “**Recent trends in Renewable energy Sources and grid Integration Issues**” under TEQIP-II organized by SVECW, Bhimavaram, held during 26th-28th Dec-2013.
10. K Lakshmi Ganesh Asst. Prof., EEE Dept., attended a two days International level workshop on, **Trends in power system protection and control(TIPSPAC)** organized by JNTU Kakinada, Vizianagaram Campus, on 19th-20th July-2013.

Events organized/ Conducted

- Organized as a Coordinator for “A Six Day Technical Training on Programmable Logic Controllers” in association with APSSDC, PSCMRCET held on 16th to 21st july-2018.

Skills

Technical Skills:

- Electrical Machines
- Power Electronics
- Power Systems

Software skills:

Matlab/simulink, PSPICE

Hobbies:

- Playing tennis and caroms.
- Meeting New People of different characters.
- Shopping

Personal Competencies:

- Sincere and a Hard Worker with a high level of integrity.
- Friendly with an upbeat attitude.
- Ability to deal with People diplomatically.

- Committed to deadlines and schedules.

Achievements:

- Got class **Fifth** in M.Tech of 1st year
- Stood **Class First** in B.Tech.
- I got the **Gold Medal** in Diploma.
- Stood School **Third** in Tenth Class.
- Participated in District Maths Talent Test Conducted at V.C.High School, Vijayawada.
- Got the **cash award** in B.Tech.

Project Work done (Academic):

- Submitted the Diploma project work entitled "**Busbar Protection**" at V.T.P.S (Dr.N.T.T.P.S), Vijayawada.
- Submitted the B.Tech project work entitled "**Protection Of Drives Through PLC(Programmable Logic Controller)**".
- Submitted the mini project work entitled "**Remote-Controlled Fan Regulator**".
- Participated the seminar entitled "**Combined Cycle Power Plants**" in Anurag Engineering College, Kodada, Nalgonda District, Andhra Pradesh.
- Submitted the M.Tech project work entitled "**Performance Analysis Of Symmetrical And Asymmetrical Multilevel Inverters**" in Sri Vasavi Engineering College, Tadepalligudem, W.G.District, Andhra Pradesh.

Personal Details:

Name: K. Lakshmi Ganesh

Date of birth: Oct 9 1987

Fathers Name: K. SeshagiriRao

Mothers Name: K. Rama Devi

Nationality: Indian

Religion: Hindu

Marital status: married

Spouse Name: K.Purnima

Son Name : K. Vaishnav Sai (1year)

Preference:

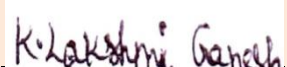
India

Declaration:

I am confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Vijayawada

Date:


(K. LAKSHMI GANESH)