

Name of Faculty Dr.P.VENKATA PRASAD
 Designation Professor
 Nature of Job/Appointment Regular
 Date of Joining 13-10-2000
 E-mail pvprasad_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (EEE)	Awarded
PG	M. Tech. (EPS)	Distinction
UG	B. Tech (EEE)	First

Work Experience

Teaching 23 years
 Research 15 years
 Industry --
 Others --
 Area of Specialization Electrical Power Systems

Professional Memberships

1. Senior Member, IEEE, Number : 94085341
2. Fellow, IE(I), Number: F-1248436
3. Life Member, ISTE, Number: LM33895
4. Life Member, SSI, Number: LM 28398

Responsibilities held at Institution Level

1. Controller of Examination, from 23-06-2018 to till date
2. Assistant Controller of Examinations
3. Member, Academic Council
4. Convener, Exams & Results Committee
5. Convener, Malpractice Committee
6. Member, Grievance Redressal Committee
7. Member, Disciplinary committee
8. Member, Library committee
9. Member of Innovation-Teaching, Learning & Evaluation Committee

Responsibilities held at Department Level

1. Head, Department of EEE, 2016 to 2018
2. PG Coordinator,
3. Chairman, Board of Studies, EEE department
4. Faculty In-Charge, Engineers Without Borders
5. Faculty In-Charge, IEEE PES Chapter
6. Member, Departmental Advisory Board
7. Member, Departmental Research Committee
8. Member, Program Assessment Quality improvement Committee

Research Guidance

1. No. of Scholars (Awarded):01; Submitted:04
2. No. of Scholars(in progress):04

Awards Received

1. Received **Best Controller of Examinations Award** from Knowledge Research Academy (An MSME Registered organization), Tamilnadu as part of International Award Ceremony on Teaching Excellence Awards (TEA 2023) on 5th September 2023
2. Best Teacher Award for the Academic Year 2018-19 from CBIT
3. Best Researcher Award from EET CRS 4th South Asian Education Awards 2019
4. Indo-Asian IIP Distinguished Scientist Award 2021 by IMRF International Publications
5. Received Person of the Year Award – Research Publication from ISIE India
6. Received Distinguished Faculty in Electrical Engineering Award from Venus International Foundation
7. Received Dr.A.P.J.Abdul Kalam Life-Time Achievement National Award 2021 from IRDP Group of Journals, Chennai

Courses Handled at Under Graduate / Post Graduate Level.	UG: Electrical Circuit Analysis, Power Systems-I, Power Systems-II ,Power System Operation and Control, Switchgear and Protection, Electrical Machines-II, Electrical Machinery-III, Optimization Techniques, Control Systems, Electrical Distribution Systems, Power quality PG: Distribution system planning and Automation, Advanced Computer Methods in Power Systems, Soft computing techniques to power systems, Deregulation of Power Systems, Real Time Applications of Power Systems, Flexible AC Transmission Systems, Power System Analysis
No. of Papers Published	National Journals – 17 International Journals – 34 National Conference – 23 International Conference –38
Projects Carried out	1. Received Rs.12,25,000/- from the AICTE for the project titled Modernization of Power systems Laboratory under the scheme MODROBS in the A.Y 2013-14
Patents	1. M.Bala Subba reddy, Divyanshi Dwivedi, P.V.Prasad, " A Power transmission network based on optimal generalized interline power flow controller(OGIPFC) for optimal power flow for complex networks to meet increased load demand", published on 11-06-2021 2. M.Balasubba Reddy, P.Venkata Prasad, T.Nireekshana, "System for mitigating circulating current in type modular multilevel converter(MMC)" Application Number: 202141049019 A; Date of filing:27/10/2021 under the name of Chaitanya Bharathi Institute of Technology, published on 05-11-2021 3. M.Balasubba Reddy, K.V.Sri ram, P.Venkata Prasad, "Design of power quality analyzer (pqa) using field programmable gate array (fpga)" Application Number: 202241010487 A; Date of filing: 26/02/2022 under the name of Chaitanya Bharathi Institute of Technology, published on 04/03/2022.
Technology Transfer	--
Invited Speaker	1. Session Chair for AICTE sponsored 6 th International Conference on Computing and Communication (ICICC'22) organized by GNITS, Hyd in association with NIT Warangal
No. of Books/Chapter Published with details	1. Published Book Titled "Basic Electrical Engineering : (As per AICTE Model Curriculum 2018)", Cengage Learning Publishers, 2019 2. Published Book Titled "Electrical Engineering Concepts and Applications", Cengage Learning Publishers, 1st Edition 2018
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (Attended and/or Organized).	Attended 1. One Week STTP on "National Education Policy: Challenges and Opportunities" organized by University of Hyderabad, during 07-08-2023 to 12-08-2023 2. AICTE-QIP Sponsored One Week Online STC on "National Education Policy: Implementation Strategies in Engineering & Technology Institutions, Madhav institute of Technology and Sciences, Gwalior, Madhya Pradesh, during 21-03-2022 to 25-03-2022 3. AICTE sponsored two week faculty development program on Electrical Paradigm Shift to Cyber Physical Systems and Contemporary Research in Electrical and Electronics Engineering, organized by Saranadhan College of Engineering, Tamilnadu during 03-05-2021 to 15-05-2021 4. One Week Faculty Development Program on "AI Techniques to Electrical Engineering" organized by ,UGC-HRDC, JNTUH during 06-07-2020 to 10-07-2020 5. Successfully Completed "Electrical Power Systems" an online non-credit course authorized by University at Buffalo and The State University of Newyork offered through Coursera on 23-06-2020 6. Successfully Completed "Solar Energy Basics" an online non-credit course authorized by The State University of Newyork offered through Coursera on 19-06-2020 7. Successfully Completed "Linear Circuits-1" an online non-credit course authorized by Georgia Institute of Technology through

- Coursera on 25-05-2020
8. Successfully Completed "AI for Everyone" an online non-credit course authorized by DeepLearning.ai offered through Coursera on 21-04 -2020
 9. Five day Online workshop on "Future Trends in Green Technology" organized by MANIT, Bhopal, during 22-06-2020 to 26-06-2020
 10. Three Day hands on workshop on "The Bodhi Tree and SAFE Tools for Effective online Teaching" organized by IIT Bombay, during 19-06-2020 to 22-06-2020
 11. One Week International Faculty Development Program on "Recent Strategies on Micro and Smart Grid Technologies" organized by GMRIT, Rajam, during 15-06-2020 to 19-06-2020
 12. One Week Faculty Development Program on "Design of Solar PV System using PVSYST software" organized by Vaagdevi College of Engineering, during 09-06-2020 to 13-06-2020
 13. One Week Faculty Development Program on " AI, Machine Learning, IOT and Bigdata Applications in Power electronics, and Its allied areas " organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, during 01-06-2020 to 06-06-2020
 14. One Week Faculty Development Program on " Outcome Based Education and NBA Accreditation Process(UG) " organized by CBIT during 28-05-2020 to 01-06-2020
 15. One Week Faculty Development Program on " Promoting Quality Culture in Technical Institutions " organized by IQAC, AISSMS College of Engineering, Pune during 25-05-2020 to 29-05-2020
 16. Five day National level Online Faculty Development Program on "Cutting Edge Technologies for Electrical Engineering" organized by Andhra Loyola Institute of Engineering and Technology, during 18-05-2020 to 22-05-2020
 17. AICTE Sponsored One Week Faculty Development Program on " Outcome based Education: A step towards Excellence " organized by Govt. College of Engineering, Karad during 11-05-2020 to 15-05-2020
 18. AICTE sponsored one week online course on " Examination Reforms" organized by IDC, AICTE, during 29-04-2020 to 02-05-2020

Organized

1. Organized a webinar under IEEE-PES Chapter on Testing of static/ smart meters as per national and international standards on 01-02-2024
2. Organized two webinars under the IEEE PES Chapter in the AY 20-21
3. Organized three webinars under IEEE PES Chapter in the AY19-20
4. Organized three-day workshop titled "Simulation of Power Electronic Converters(SPEC-2018)" Dept.of EEE in association with IEEE PES student chapter and EEE Association, CBIT during 26-02-2018 to 28-02-2018
5. Organized two-week AICTE sponsored Faculty Development Program "Power Electronic to Renewable Energy Systems" Dept.of EEE, CBIT during 13-11-2017 to 25-11-2017
6. Organized two-day workshop titled "Practical Aspects of Renewable Energy Sources" Dept.of EEE in association with IEEE PES student chapter and Energy Saver's Club during 27-03-2017 to 28-03-2017
7. Organized R & D conclave on " Challenges and Opportunities for Research and Development of Power and Energy " Dept.of EEE, CBIT during 01-02-2017 to 03-02-2017

Details of Journal Publications/
Conferences (National and
International)

International Journals

1. Balasubbareddy Mallala, D.Dwivedi, P.V.Prasad " Optimal Power Flow Solution Using HFSS Algorithm" Journal of Electrical and Electronics Engineering Research, Academic Journals (Scopus Indexed) Vol. 12(1), pp. 1-11, January-June, 2023 DOI: 10.5897/JEEER2022.0659 Article Number: ADABC3370489 ISSN: 2141-2367 Copyright ©2023

2. P.V.Prasad, Naveena, D.Abhinay, M.RaviTeja, A.Naveena, " Multi input bi-directional resonant converter using fuzzy logic controller for hybrid energy systems" International Journal of Analytical and Experimental Modal Analysis, An UGC-CARE proved journal, ISSN NO:0886-9367/ <http://ijaema.com> Vol.15, issue.4, April 2023
3. M.Balasubbareddy, P.Venkata Prasad, P.Kowsthubha, "Multi-Objective Optimization in the Presence of OGIPFC Using NSMMP Algorithm" Recent Advances in Electrical & Electronic Engineering, 2024, Vol.17, No.1, PP. 60-81, © 2024 Bentham Science Publishers
4. Balasubbareddy Mallala, Venkata Prasad Pavana, Ravindra Sangu , Kowsthubha Palle and Venkata Krishna Reddy Chinthalacheruvu,(2022) "Multi-Objective Optimal Power Flow Solution Using a Non-Dominated Sorting Hybrid Fruit Fly-Based Artificial Bee Colony" MDPI Energies Journal(Open access journal)(Scopus Indexed) (Energies 2022, 15, 4063. <https://doi.org/10.3390/en15114063>) Energies , Volume 15, Issue 11, 4063, pp.1-16.
5. P. Sreelekha, P.Venkata Prasad,(2021) "Optimal sizing of hybrid micro grids using genetic algorithm" International Journal of Creative Research Thoughts(IJCRT), Vol.9, Issue.12,pp.748-763, ISSN: 2320-2882
6. P.V.Prasad, R.Karthik,(2021) "Genetic algorithm based conductor selection for maximum loading" International Research Journal of Engineering and Technology(IRJET), Vol.8, Issue.6, PP.3516-3520.
7. P.Sreelekha, P.V.Prasad,(2021) " Alcohol detection with automatic engine locking system", International Journal of Advances in Engineering and Management(IJAEM), Vol.3, Issue 6, PP.331-340, ISSN 2395-5252, Impact Factor-7.429, DOI: 10.35629/5252-0306331340, ISSN:2395-5252.
8. Ch.V.Krishna Reddy, T.R.Vijayalakshmi, P.Venkata Prasad, M.Thirupathaiiah(2021) "Performance evaluation of modified SEPIC converter for Renewable applications", Proteus Journal, ISSN/eISSN:0889-6348, Vol.12, Issue.4, pp.54-61.
9. P.V.Prasad, K.V.Sriram(2021) " Optimal conductor selection for maximum loading of distribution networks" International Research Journal of Engineering and Technology(IRJET), Vol.08, Issue.04, pp.1553-1558.
10. M.Balasubbareddy, P.Venkata Prasad, Saini Varshini(2021) "A Novel Power quality conditioner with UPQC" GIS Science Journal, Vol.8, Issue.3, PP.1171-1179.
11. P.V.Prasad and S.Karuna(2019) "Power quality improvement using DSTATCOM with pso tuned PI controller" International Research Journal of Engineering and Technology(IRJET), Volume.06, Issue.07, pp.2219-2227
12. P.V.Prasad, N.Usha and K.Rameshreddy(2019) "A Simplified control strategy for an enhanced performance of six level dual inverter fed Induction motor drive" International Journal of Engineering and Advanced Technology(IJEAT), Volume.8, Issue.6, pp. 1563-1567
13. P.V.Prasad, S.R.Reddy and G.N.Srinivas(2018) "Four-leg VSI based DSTATCOM for compensating Non-Linear and Un-Balanced loads " Majlesi Journal of Electrical Engineering, Volume.12, No.4, pp.49-57
14. M.Thirupathaiiah, P.V.Prasad and V.Ganesh(2018) "Enhancement of Power Quality in Wind Power Distribution System by Using Hybrid PSO-Firefly based DSTATCOM" International Journal of Renewable Energy Research,Volume.8 No.2, pp.1138-1154
15. P.V.Prasad, N.Usha and K.Rameshreddy (2018)"Analysis of Effects of Input Current Sub Harmonics and Inter Harmonics on Induction Motor Drive" International Review of Automatic Control, Praise Worthy Prize publications, Volume.11,No.1,pp.23-28
16. P.V.Prasad, S.R.Reddy and G.N.Srinivas(2018) "Design of PI and Fuzzy Logic Controllers for Distribution Static Compensator" International Journal of Power Electronics and Drive System(IJPEDS), Volume.09, No.2,pp.465-477
17. P.V.Prasad, S.R.Reddy and G.N.Srinivas(2018) "Simulation and Comparison of Twenty Five Level Diode Clamped & Cascaded H-Bridge Multilevel Inverter" Iranian Journal of Electrical and Electronic Engineering, Volume.14, No.1,pp.95104-372
18. P.V.Prasad, N.Usha and K.Rameshreddy(2017) "A Cuk Converter based Sag and Swell Compensation for an Induction Motor Drive" International Journal of Emerging Technology and Advanced Engineering, Volume.7, Issue no.1, pp.9-13
19. P.V.Prasad, S.R.Reddy and G.N.Srinivas(2017) "Power Quality Improvement Using Cascaded H-Bridge D-Statcom" International Journal of Advanced Technology in Engineering and Science, Volume.5 Issue No.3, pp.362-372

National Journals

20. Ajaz Fathima, P.V.Prasad, M.Manjula(2022_ " Review of the Key Components of Electric Auto Industry" GIS Science Journal, Vol.9, Issue.4, PP 888-894, UGC – CARE Approved Group- II Journal, Impact Factor: 6.1, ISSN No: 1869-9391, DOI: 20.18001.GSJ
21. S.R.Reddy, P.V.Prasad, G.N.Srinivas(2020), " Performance comparison of D-STATCOM with PI and PSO-PI controller under non-linear load condition" Power Research, CPRI Journal, Vol.16, No.2, pp.115-124, ISSN (Print) : 0973-0338, DOI : 10.33686/pwj.v16i2.153673
22. P.V.Prasad and M.Balasubbareddy(2019) "Distribution network reconfiguration using GA and BPSO" i-manager's Journal on Power Systems Engineering, Volume.06, No.04, pp.37-44
23. P.V.Prasad, M.Balasubbareddy and A.Bhanuchander(2017) "Simplified technique for Newton-Raphson power flow solution in Polar form using Hybrid bus" The Journal of CPRI, Volume.13, No.3,pp.395-403

International Conferences

24. M.Balasubba Reddy, Azka Ihteshan Ahmed, P.Venkata Prasad, P.Kowstubha, "Development of Renewable energy system for enhancing reliability of power" International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2023)" organized by Dept. of Electrical and Electronics Engineering, Hindusthan Institute of Technology, Coimbatore, 9-10 November 2023
25. M.Balasubba Reddy, P.Venkata Prasad, P.Kowstubha, "Power Quality Conditioner with Hybrid Ant Colony Optimization" International Conference on Evolutionary Artificial Intelligence (ICEAI 2023)" organized by Dept.of Electrical and Electronics Engineering, RVS College of Engineering& Technology, Coimbatore in association with Faculty of Innovation and Technology, Taylor's University, Malaysia, 13-14 September 2023
26. M.Balasubba Reddy, P.Venkata Prasad, P.Kowstubha, "Multi Objective Optimization with Practical Constraints using AALOA" Seventh International Congress on Information and Communication Technology for Intelligent Systems"(ICTIS 2023) organized by Global Knowledge Research Foundation & G R Scholastic LLP, Ahmadabad, 27-28 April 2023
27. P.V.Prasad, M.Balasubba Reddy, P.Kowstubha, " Design and implementation of a three-phase power quality analyzer for live data tracking using a Field programmable gate array" 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences, ICATCHCOME 2023, 9th -10th Feb 2023, organized by Center for Research and Development(CFRD), KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu
28. P.V.Prasad, M.Balasubba Reddy, P.Kowstubha, " Analysis of Power Quality issues and mitigation techniques using HACO algorithm" 6th International Conference on Intelligent Sustainable Systems(ICISS 2023), 3rd-4th Feb 2023, organized by SCAD College of Engineering and Technology, Tirunelveli Tamilnadu
29. P.V.Prasad, M.Balasubba Reddy, P.Kowstubha, " Power Quality Conditioner with fuzzy logic controller" Seventh International Conference on Information and Communication Technology for Competitive Strategies, ICTCS 2022, 9th -10th Dec 2022, organized by Global Knowledge Research Foundation ,Chandigarh, Punjab
30. P.Venkata Prasad, "Combined optimization in Radial distribution system using CPSO " International conference on Advances in Communications, Computing,& Electronic Systems (ACCES2022), organized by Avanthi Institute of Engineering and Technology, Vizianaganram, A.P and City University, Malaysia., 6th & 7th May 2022
31. P.Venkata Prasad, M.Bala Subba Reddy,(2022) "Simulation of power quality conditioner with fuzzy logic controller" International Conference, ICACCES 2022, Dept.of EEE, Vasireddy Venkatadri Institute of Technology(Autonomous), Guntur, AP.
32. P.Venkata Prasad,(2022) "Combined optimization in Radial distribution system using CPSO " International conference on Advances in Communications, Computing,& Electronic Systems (ACCES2022), organized by Avanthi Institute of Engineering and Technology, Vizianaganram, A.P and City University, Malaysia.
33. P.V.Prasad, P.Sreelekha,(2021) " Optimal distributed generator and shunt capacitor in radial distribution system using particle swarm optimization" A Two day International Conference on Emerging Trends in Circuit branch Technologies and Applications (ETCTA-2021), Organized by CBIT, 3-4 April 2021
34. M Balasubbareddy, P.Venkata Prasad, S Varshini, A D Sarma,(2021) " AI based Cyber-Attack resistant Microgrid System with IRNSS Synchronization" A Two day International Conference on Emerging Trends in Circuit branch Technologies and Applications (ETCTA-2021), Organized by CBIT, 3-4th April 2021
35. P.Venkata Prasad,(2021) "Analysis of fly back micro inverter with MPPT algorithm " 6th International Conference on Advanced Research in Arts, Science, Engineering and Technology (ICARASET-2021), 27th June 2021
36. P.V.Prasad, M.Balasubba Reddy, Ch.V.Krishna Reddy, " Service Restoration in Radial Distribution Systems Using Network Reconfiguration" International Conference on Emerging Trends in Electrical, Electronics and Computing Technologies, ICETEECT'21, 30th June 2021, organized by Department of EEE, ECE & CSE, Karpaga Vinayaga College of Engineering and Technology, Tamilnadu
37. P.V.Prasad, M.Balasubba Reddy,(2021) " Optimization of Multi-fuel Non-convex Economic-Emission Dispatch in the Presence of GUPFC " International Conference on Emerging Trends in Electrical, Electronics and Computing Technologies, ICETEECT'21, 30th June 2021, organized by Department of EEE, ECE & CSE, Karpaga Vinayaga College of Engineering and Technology, Tamilnadu
38. P.V.Prasad, Tejaswini, Ravali, Sowmya,(2021) "Performance analysis of flyback micro inverter with H5 inverter" International conference, ICEAT 21, Dept.of EEE, Lords Institute of Technology, 16th & 17th July 2021
39. P.V.Prasad, S.R.Redd and G.N.Srinivas(2019) " Power quality enhancement using particle swarm optimization based shunt active power filter" Springer Publication (First International Conference on Advances in Electrical and Computer Technologies 2019(ICAECT-2019) Proceedings of the ICAECT 2019–Volume-1, Coimbatore, Tamilnadu, pp.26-27
40. P.V.Prasad and M.Balasubbareddy(2018) "Multi-Objective Optimal Power flow with generalized Interline Power flow Controller using NSHCSA" International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing organized by Priyadarshini Engineering College, Vellore, Tamilnadu.

41. P.V.Prasad, N.Usha and K.Rameshreddy(2018) "Compensation of Symmetrical and Unsymmetrical Voltage Sags and Swell for an Induction motor Drive by using Cuk Converter" International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing organized by Priyadarshini Engineering College, Vellore, Tamilnadu.
42. P.V.Prasad, S.R.Reddy and G.N.Srinivas(2018) "Simulation and Comparison of 25 level Diode Clamped and Cascaded H-Bridge Multilevel Inverter" 4th International Conference on Electrical, Electronics, Instrumentation & Computer Communication, organized by Dept.of Electronics and Instrumentation Engineering, Karpagam College of Engineering, Coimbatore
43. P.V.Prasad and Rakesh,(2017) "A Hybrid Algorithm for Optimal allocation of DG in Radial Distribution Systems" Spring conference of IEEE Region 10, IEEE TENSYPMP 2017 conducted by IEEE Region 10, at Cochin, Kerala
44. P.V.Prasad, M.Thirupathaiah and V.Ganesh(2017) "Enhancement of power quality in wind power distribution system using DVR and DSTATCOM based agent system" IEEE International conference on Innovations in Power and Advanced Computing Technologies(i-PACT2017)(Scopus indexed -IEEE digital library), organized by Dept. of EEE, VIT University, Vellore

National Conferences

45. P.V.Prasad, A.Sai Keerthi, P.Ramya Sree, M.Akshith,(2021) "A Method for power system security analysis" National Conference on flourishing areas in electrical and electronics engineering(NACOFEE'21), organized by Dept.of EEE, Kings College of Engineering, Pudukkottai, Tamilnadu, 12th April 2021
46. P.V.Prasad, Harshith varma, Sreeram and Pranay.P(2020) "Contingency Analysis of Power system using Power world simulator" National conference on Recent Trends in Electrical Engineering (RTEE-20), conducted by Department of EEE, MGIT, Hyderabad, PP.251-255.

