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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Name : Dr.G.PRAKASH

Designation : Professor & Head

Email : prakash.eee@sairamit.edu.in

Qualification : M.E., Ph.D.,

Specialization : Power Electronics and Drives

Research Interest : Power Electronics

Experience in years : **Teaching** UG PG **Industry**

No. of Workshop/Conferences/
FDP attended : Workshop Conferences FDP

No. of Workshop/Conferences/
FDP Organized : Workshop Conferences FDP

Professional Membership	IEEE,ISTE,IAENG
Publications	National : JOURNAL-3,CONFERENCE-3
	International:JOURNAL-13,CONFERENCE-5
Research Funded Projects	Nil
Patents	Patent No. 202111006351 Titled “AUGMENTED REALITY-BASED LOW COST SMART HELMET FOR E-VEHICLE” Published on 19.02.2021
Achievements	<ul style="list-style-type: none"> ● Obtained 100% result in Electrical Drives and Controls ● Obtained 100% result in Electrical Energy Generation Utilization and Conservation ● Obtained 100% result in Basic Electrical & Electronics Engineering ● Obtained 100% result in Electrical Machines-II ● Obtained 100% result in Protection and Switchgear ● Obtained 100% result in Electronic Devices and Circuits
Any Other Information	Alumni Coordinator Solar Energy Incharge

List of Publications:-

1. **G.Prakash**, C.Subramani, C.Bharatiraja & Mohammad Shabin" *A low cost single phase grid connected reduced switch PV inverter based on Time Frame Switching Scheme*", International Journal of Electrical Power and Energy Systems, Elsevier, Vol.77, pp.100-111, 2016. SCI.,(SJR Rating:1.562, SCOPUS-H Index-79)
2. **G.Prakash** & C.Subramani," *Modulation and Analysis of Quasi Z-Source Inverter for Solar Photovoltaic System*", Indian Journal of Science and Technology, Vol.9(19) pp.01-07, 2016 (SJR Rating: 0.27, SCOPUS-H Index-25)
3. **G.Prakash** & C.Subramani," *Space Vector and Sinusoidal Pulse Width Modulation of Quasi Z-Source Inverter for Photovoltaic System*", International Journal of Power Electronics and Drive Systems, Vol.7(3) pp.601-609, 2016 (SJR Rating: 0.249, SCOPUS-H Index-09)
4. **G.Prakash** & C.Subramani," *Grid Connected Reduced Switch Inverter for Solar Photovoltaic Systems*", International Journal of Control Theory and Applications, Vol.9(16) pp.8313-8323, 2016 (SJR Rating: 0.17, SCOPUS H Index-09)
5. C.Subramani & **G.Prakash** ,"*Analysis of Buck Converter for Permanent Magnet Generator in Wind Power Generation* ", International Journal of Control Theory and Applications, Vol.9(14) pp.6875-6873, 2016 (SJR Rating: 0.17, SCOPUS H Index-09)
6. K.Dhineshkumar, C.Subramani & **G.Prakash** " *Analysis of Multilevel Inverter with Boost Converter for Single Phase System*", International Journal of Control Theory and Applications, Vol.9(33) pp.247-253, 2016 (SJR Rating: 0.17, SCOPUS ,H Index-09)
7. **G.Prakash**, K.Dhineshkumar & P.Rathnavel , "*Design and Simulation of Synchronous Buck Converter for Permanent Magnet Generator in Low Power Applications* ", International Journal of Engineering Management and Research , Vol.5(5) pp.280-285, 2015.
8. P.Rathnavel, Baldwin Immanuel, **G.Prakash**," *Road Tyre Friction Electrical Potential Utilization in Electrical Potential* ", International Journal of Engineering Management and Research , Vol.5(5) pp.246-251, 2015
9. **Prakash, G.**, Subramani, C., Dhineshkumar, K., Rayavel, P.,"*Analysis of Extended Z-source Inverter for Photovoltaic System*",Journal of Physics: Conference Series , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)
10. Dhineshkumar, K., Subramani, C., **Prakash, G.**," *Analysis and comparison of 13 level inverter* ",Journal of Physics: Conference Series , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)
11. Surenderanath, S., Rathnavel, P., **Prakash, G.** , .," *Simultaneous DC and three phase output using hybrid converter*",Journal of Physics: Conference Series , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)

12. Rayavel,P., Surenderanath, S., Rathnavel, P., **Prakash, G.**," Emergency automatic signalling system using time scheduling",Journal of Physics: Conference Series , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)

13. Krishnan,D., Subramani, C., **Prakash, G.**, " PV based thirteen level multilevel inverter for photovoltaic systems ", International Journal of Pure and Applied Mathematics , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)

14. Dhineshkumar, K., Subramani, C., **Prakash, G.**," Performance analysis of nine level inverter with R and RL load ", International Journal of Pure and Applied Mathematics , Vol.1000 pp.1-7 (SJR Rating: 0.24, SCOPUS-H Index-59)

Workshop / Conferences / FDP Attended:- Workshop / Seminar:

1. Attended the faculty training programme on "**Instructional Design and Delivery**" organized by national institute of technical teachers training in St Peters Engg college, Chennai,Tamilnadu

2. Attended the faculty training programme on "**Effective Teaching Technique**" at

St Peters Engineering College, Chennai,Tamilnadu

3. Attended two days National workshop on **Effective Writing in Engineering Journal Paper and Thesis** at SRM University, Chennai

4. Attended three days Training on **Solar PV System Design**" at Hindustan University, Chennai

5. Attended two days workshop on **Electromagnetic Field Theory & Transmission Lines** at Sri Sai Ram Institute of Technology , Chennai

6. Attended one day workshop on **Recent Trends in Renewable Energy**, at Sri Sai Ram Institute of Technology , Chennai

7. Attended one day workshop on **How to write Research Papers for Refereed Journals** at Sri Sai Ram Institute of Technology , Chennai

International/National Conference:

1. **G.PRAKASH**, "Design and Development of Z source Converters for Low Power Applications" International Conference on ICMOT-2010 at SWARNANDHRA College of Engineering & Technology, AP

2. **G.PRAKASH**, "Analysis , Modeling and Simulation of Synchronous Buck Converter in for PMG in low Power Applications" International Conference on ICSCI-2006 at Pentagram Research Center, Hyderabad.

3. **G.PRAKASH**, " Design and Simulation of Buck –Boost Converter for PMG in low Power Applications" International Conference on IEEE-IICPE2006

4. **G.PRAKASH**, " Design, Development and Testing of Converters for Permanent Magnet Generator in Low Power Generation." National Conference on PCID-2005 at Bannari Amman Institute of Technology, Sathyamangalam.

5. **G.PRAKASH**, " New Control of PV Solar farm as IPFC for increasing Grid Power Transmission Limits" National Conference on ITPED-2016 at Vellamal Engineering College, Chennai.

Workshop / Conferences / FDP Organized:-

1. **Organized Workshop on** "An Overview of AutoCAD Electrical" -28th and

29th June 2017

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