# FACULTY PROFILE

Name	e of the faculty:	Vargil Kumar E.
Depar	tment: Elec	etrical & Electronics Engineering
Colleg	ge:	Gudlavalleru Enginnering College
Phone	e No:	08674-273737-2105
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**RESIDENTIAL ADDRESS:** Do:1-3/4-226, 4 pols Center, Vijayawada

ACADEMIC QUALIFICATIONS: M.Tech (Power Electronics & Drives)

Pursuing-Ph.D. @ IIT-Delhi (Power Electronics)

# ACADEMIC REWARDS/ ACHIEVEMENTS:

Received the best paper award for paper titled **"Design and Analysis of Two-Input DC-DC Converter Used in Low Voltage DC-Grid Applications", at IEEE-**ICACT-2013 conference.

### **PROFESSIONAL EXPERIENCE:**

Designation	Institution	Period
Associate Professor	GEC	1-1-2011 till date
Sr. Assistant Professor	GEC	1-7-2009 to 31-12-2010
Assistant Professor	GEC	20-12-2003 to 1-7-2009

### **SPECIALIZATION:**

DC-Micro girds, Multi-input DC-DC converters, Switched Mode Power Supplies Design.

### AWARDS / RECOGNISATIONS / ACHIEVEMENTS:

Best Paper in IEEE - ICACT-2013, conference at Annamacharya Institute of Technology during 10<sup>th</sup> to 11<sup>th</sup> August 2013.

# MEMBERSHIP IN PROFESSIONAL BODIES: MIEEE, MIE, LMISTE EDITORIAL / ADVISORY BOARD: PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
-	10	27

#### WORKSHOPS/SEMINARS/GUEST LECTURES ORGANIZED/ATTENDED:

Description	Total
Workshops / Short term courses Organized	01
Workshops / Short term courses Attended	14
Guest Lectures delivered	-
Professional Activities:	
(Resource Person/ Session Chair for conferences or symposium)	

# **RESEARCH PUBLICATIONS:**

	Conferences	National	2
No. of Papers Published		International	17
1	Journals	National	2
		International	2
No. of Books Published			

# **R & D and CONSULTANCY:**

Description	No. of Projects	Amount Santioned / Generated	Status
External Funded Research Projects	-	-	-
In – House R & D	1	1,80,000	Completed

#### PAPERS PUBLISHED IN JOURNALS:

1. Published a paper at Journal of Electrical Engineering, Romania, Europe. On "An improvement in dynamic response of a direct torque controlled induction motor using sector advancing technique", which will be coming in March Edition, 2010.

2. Published a paper titled "Steady State Analysis of Interleaved High Conversion Ration Bidirectional DC-DC Converter" in International journal of Electronics, Electrical and Computational Systems (IJEECS), ISSN 2348-117x, Vol.6, Issue 7, July 2017.

#### PAPERS PUBLISHED IN CONFERENCES/WORKSHOPS:

- 1. Eate, Vargil Kumar, and Mummadi Veerachary. "Analysis of two-input Switched Inductor-Capacitor Hybrid Buck-SEPIC DC-DC converter." 2017 IEEE Transportation Electrification Conference (ITEC-India). IEEE, 2017.
- 2. Yarlagadda, Anil Kumar, et al. "A Modified Seven Level Cascaded H Bridge Inverter." 2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON). IEEE, 2018.
- 3. Eate, Vargil Kumar, and Mummadi Veerachary. "Analysis of two-input Switched Inductor-Capacitor Hybrid Buck-SEPIC DC-DC converter." 2017 IEEE Transportation Electrification Conference (ITEC-India). IEEE, 2017.
- 4. Eate, Vargil Kumar, and Mummadi Veerachary. "Analysis of Switched Inductor Hybrid Buck-SEPIC two input DC-DC converter." 2016 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES). IEEE, 2016.
- 5. Published a paper on "Steady state analysis of Multi-input DC-DC converter" at "PEDES-2014" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.
- 6. Published a paper on "Steady state analysis of Multi-input DC-DC converter" at "PEDES-2014" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.
- 7. Published a paper on "Steady State analysis of large step down ratio Two-input DC-DC converter" at at "ICCC-2013" an IEEE International conference, at Government College of Engineering, Trivandrum, Kerala, during 13th to 15th December 2013.
- 8. Published a paper on "Design and Analysis of Two-Input DC-DC Converter Used in Low Voltage DC-Grid Applications" at "ICACT-2013", IEEE International conference, at Indian Annamacharya Institute of Technology, during 10th to 11th August 2013.
- 9. Published a paper on "**Two input DC-DC converters for DC grid applications**" an PECON-2012, IEEE International conference, at Deenbandh Chottu Ram Univ. of Technology, Haryana during 2nd to 5th December 2012.
- 10. Published a paper on "Steady State Exploration of 3-Ø SEIG with Novel Leading VAR Controller and alleviation of harmonics using shunt and series active power filters "at PEDES-2010 an IEEE International conference held at Indian Habitat Center New Delhi, conducted by IEEE and IIT Delhi during 20th to 24th December 2010.
- 11. Published a paper on "Steady state Investigation of self excited three phase induction generator with novel leading VAR controller and mitigation of harmonics using active power filters "at PECON-2010 an IEEE International conference held at Malaysia, during 29th to 1st December 2010.

- 12. Published a paper on "A Sector advanced technique to improve dynamic response of a direct torque controlled Induction motor" at PECON-2010 an IEEE International conference held at Malaysia, during 29th to 1st December 2010.
- 13. Published a paper on "A Novel Low Cost Bi-Polar –starting and unipolar-running converter for extended torque speed characteristics of spindle motor" at PECON-2010 an IEEE International conference held at Malaysia, during 29th to 1st December 2010.
- 14. Published a paper on "Electronic control Unit for an Adaptive Cruise control and Engine Management system in a vehicle using Electronic Fuel Injector" at INTERACT-2010 an IEEE International conference held at Chennai, during 3rd to 5th December 2010.
- 15. Presented a paper at NPSC-2010, conducted by Osmania University during 15th 17th December 2010, titled "Analysis of three phase SEIG with novel LVARC along with Alleviation of harmonics with SAF".
- 16. Published a paper at NPSC-2010, conducted by Osmania University during 15th 17th December 2010, titled "An improvement in dynamic response of a direct torque controlled induction motor using sector advancing technique".
- 17. Presented a paper at National Seminar, conducted by Gudlavalleru Engineering College on 24th October 2009, titled "Steady State Investigation of wind power generation with VAR Controller".

#### LIST OF WORKSHOPS/PAPER CONTESTS ORGANIZED:

1. Acted as Coordinator & SPOC for a one day National Workshop on 'NPTEL' jointly organized by Gudlavalleru Engineering College and IIT-Madras, on 6th December 2018.

2. Acted as Coordinator for National Level Paper Presentation "PHASE – 2K10" conducted at Gudlavalleru Engineering College, Gudlavalleru.

3. Acted as Coordinator for National Level Paper Presentation "PHASE – 2K9" organized at Gudlavalleru Engineering College, as part of GECFEST-09 Gudlavalleru.

4. Acted as Coordinator for National Level Paper Presentation "PHASE – 2K6" organized at Gudlavalleru Engineering College, as part of GECFEST-10 Gudlavalleru.

#### LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:

- 2. Attended a one day National Workshop on 'NPTEL' jointly organized by Gudlavalleru Engineering College and IIT-Madras on 6th December 2018.
- 3. Attended and presented a paper at "**PEDES-2018**" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.
- 4. Attended and presented a paper at "ITEC-2017" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.

- 5. Attended and presented a paper at "**PEDES-2016**" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.
- 6. Attended a two day FDP on **"Renewable Energies and Grid Integration Systems"**, at Velagapurdi Siddartha Engineering college, Vijayawada during 7th to 9th October 2016.
- 7. Attended and presented a paper at "**PEDES-2014**" an IEEE International conference, at IIT-Bombay, during 16th to 19th December 2014.
- 8. Attended and presented a paper at "ICCC-2013" an IEEE International conference, at Government College of Engineering, Kerala, during 13th to 15th December 2013.
- 9. Attended and presented a paper at "ICACT-2013" an IEEE International conference, at Indian Annamacharya Institute of Technology, during 10th to 11th August 2013.
- 10. Attended and presented a paper at "**PECON-2012**" an IEEE International conference, at Deenbandh Chottu Ram Univ. of Technology, Haryana during 2nd to 5th December 2012.
- 11. Attended and presented a paper at "**PEDES-2010**" an IEEE International conference, at Indian Habitat Center, New Delhi, during 20th to 24th December 2010.
- 12. Attended and presented a paper at "NPSC-2010", a prestigious National conference at Osmania University, Hyderabad, during 15th to 17th December 2010.
- 13. Attended a two day workshop on "PSCAD" on 30th & 31st March 2007 by KLG Systel, at V.R.Siddhartha Engineering College ,Vijayawada
- 14. Attended a one day workshop on "Student feedback & performance appraisal" on 17th Feb 2007 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training and Research, Chennai
- 15. Attended a twelve days workshop on "Instructional Design & Delivery" during 20th November to 2nd December 2006 by NITTTR, Chennai sponsored by AICTE.
- 16. Attended a six days workshop on "Instructional Design & Delivery" during 3rd July to 8th July 2006 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training & Research, Chennai
- 17. Attended a one day workshop on "Energy Efficient Management" on 20th October 2004 at B.V.R. Institute of Technology, Narasapur, Medak
- Attended a 3 Weeks workshop on "Generation, Measurement & Testing techniques in High Voltage Engineering" during 11th October to 2nd November 2004 by U.G.C. Academic Staff College, J.N.T.U, Hyderabad.
- 19. Attended a seminar on "Biometrics in Information Technology", conducted by Gudlavalleru Engineering College.

#### **CERTIFICATIONS: NII GUEST LECTURES DELIVERED: NII**

# **MEMBERSHIP IN PROFESSIONAL BODIES:** $\Box$ MIE

 $\Box$  MIEEE

 $\Box$  LMISTE

# **CONSULTANCY ACTIVITIES:** Nil **GRANTS FETCHED:**

Acted as Co-cordinator for MODROBS for a grant of about Rs. 6 Lakhs.