Dr. Danduprolu Kiran Kumar ***M.Tech, Ph.D, MISTE, MSSI, MIEEE,***

Assistant Professor,

Electrical & Electronics Engineering,

JNTUH University College of Engineering Hyd,

JNT University Hyd, Kukatpally, Hyd-85,TS

He was graduated towards Electrical and Electronics Engineering in 2007 and obtained post graduate towards VLSI Design in 2009 from repudiated institutions and received Ph.D. degree from JNTU Hyderabad in 2020. He has 13 years of teaching and research experience. Presently, he was working as Assistant Professor in the department of Electrical and Electronics Engineering, JNTUH University College of Engineering Hyderabad since 2010. He has published 12 technical research papers in various International Journals and 2 Conferences. His research towards **Industrial Drives, Hybrid Electric Vehicles, Multilevel Inverter, VLSI Design**,.

Teaching Experience:

- Assistant Professor, JNTUH College of Engineering Hyd. since 2010 till date.
- Assistant Professor, NBKR IST, Vakada, Nellore (Dist), AP. From in 2009-2010.

Administrative Position Held:

- **Officer in Charge of Examinations** (OIE), JNTUH University College of Engineering Hyderabad from 02 May 2022 to till date
- **Project Engineer (Electrical Maintenance) -** JNTUH College of Engineering Hyderabad, from 01 February 2020 to till date.
- **Hostel Manager/Warden -**Manjeera Boys Hostel, JNTUH College of Engineering Hyderabad, from 01 July 2020 to till date.
- **Hostel Manager/Warden -**Manjeera Boys Hostel, JNTUH College of Engineering Hyderabad, from 09 Apr 2018 to 31 January 2020.
- **Officer in Charge of Examinations** (OIE), JNTUH College of Engineering Hyderabad from 19 Nov 2013 to 17 Sep 2017.
- **Deputy Warden**-Krishna and Kinnera Boys Hostel, JNTUH College of Engineering Hyderabad from 17 June 2011 to 09 April 2018.
- **Deputy Warden**- Manjeera Boys Hostel, JNTUH College of Engineering Hyderabad, 25 Sep 2010 - 17 Aug 2011.

Research Projects:

DTC of PMSM fed with Three Level Inverter using FPGA Controller, Funded by TEQIP-III - 8 Lac (sanctioned in 2018 duration of 3 years).

Publications - International Journals:

1. Kiran Kumar Danduprolu, and G.Tulasi Ram Das, "*Fuzzy Logic Controller based performance of SPMSM fed with Improved Direct Torque Control"*, International Journal of Renewable Energy Research, Vol. No.9, Issue No.3, Sep, 2019.
2. Danduprolu Kiran Kumar and G. Tulasi Ram Das "Adaptive Fuzzy Controller based Self Regulated Reference Stator Flux Estimator of Direct Torque Control for Three level Inverter fed IPMSM", International Journal of Intelligent Engineering and System (IJIES), Vol.13, No.2, 2020, pp.11-19, DOI: 10.22266/ijies2020.0430.02 and ISSN No.2185-3118.
3. Prasad Puramshetti and Mr. D. Kiran Kumar, "Design and Development of Direct Torque Controlled Five Phase Induction Motor Drive", High Technology Letters, Volume 26, Issue 12, 2020, ISSN NO : 1006-6748.
4. Bhanoday. K and D. Kiran Kumar "Space Vector based Direct Torque Control of open End Winding PMSM fed with 5 level inverter", International journal of Scientific Research in Engineering and management Vol.3 Issue.9 Set-2019**.2582-1892**
5. C. Ramcharan Reddy and D. Kiran Kumar, "IOT based Automatic Irrigation and Data Logging System using Solar Energy", International journal of Electronic Engineering, Vol. 11. No. 2, Pp. 378-385, June, 2019 ISSN: 0973-7383.
6. Kiran Kumar Danduprolu, Laxman Naik Barmavat, *Double Input Z-Source DC-DC Converter Fed with Separately Excited DC Motor*, International Electrical Engineering Journal (IEEJ), ISBN No.2078-2365, Vol. No.5, Issue No.1, pp.1229-1236, 2014.
7. Kiran Kumar Danduprolu, G. Tulasi Ram Das, "*Performance of Fuzzy Controller based Three Level Direct Torque control fed IPMSM"*, International Journal of Engineering and Advanced Technology (IJEAT), ISBN No.2249-8958, Vol. No.8, Issue No.3, Feb, 2019.
8. Kiran Kumar Danduprolu & Tulasi Ram Das, "*Simulation and Analysis of Modified DTC of PMSM"*, International Journal of

Electrical and Computer Engineering (IJECE), ISBN No.2088-8708, Vol. No.8, Issue No.5, pp.2895-2903, OCT, 2018.

9. P. Venkata Sai & Dr. D.Kiran Kumar , "*A Three-Phase, Five-Level Multilevel Inverter with Output Voltage Boost using induction motor*", The International journal of analytical and experimental modal analysis, ISSN NO:0886-9367 Volume XIII, Issue XI, November/2021,pp.726-733(UGC-36272).
10. Jetty Darshan Sai & Dr. D.Kiran Kumar. "*Novel grid connected wind turbine energy system using conservative power*" The International journal of analytical and experimental modal analysis, ISSN NO: 0886-9367 Volume XIII, Issue XI, November/2021, pp.734-743(UGC-36272).

International Conferences:

1. Kiran Kumar Danduprolu, A. Suresh Kumar, "*A novel model of Ripple free voltage multiplier for High Voltage (3200V) DC*, ICAESA 2014, June, 2014.
2. Kiran Kumar Danduprolu, A. Suresh Kumar, "*Fuzzy Control Hybrid PWM based Grid connected Multilevel Power converter for Renewable energy systems"*, Recent Advanced in Electrical Power Engineering and System, RAEPES 2016. Pp.20-21 Oct 2016.

Courses Organized:

1. Organized a Workshop on **Real time implementation of power Electronic controlled drives using LABVIEW**, JNTUH College of Engineering, Hyderabad, 16-04-2015 to 17-04-2015.
2. Organized a Workshop on **Power Electronics Applications in Electrical Systems**, JNTUH College of Engineering, Hyderabad, 28-12-2020 to 29-12-2020.
3. Organized a one week short term course on **RECENT ADVANCES IN RENEWABLE POWER,** UGC-HRDC, JNTUH, Hyderabad, from 13-09-2021to 18-09-2021.

Industrial Training:

1. Participated in a Two-week Industrial Training Program for "**Design of Three Phase Three level Converters and it's corresponding VHDL Coding",** EMSYS Technologies, Coimbatore, 14-05-2019 to 03-06-2019**,** TEQIP-III, R&D Project.

2. Participated in a One week Industrial Training Program for "**Industrial Training for Design of Voltage and Current sensors of PMSM Drive with Corresponding VHDL Coding/Xilinx Program,"** EMSYS Technologies, Coimbatore, 18-04-2022 to 23-04-2022**,** TEQIP-III, R&D Project.
3. Participated in a One week Industrial Training Program for **"Industrial Training for Design of DTC control of PMSM Drive with different loading conditions corresponding VHDL Coding/Xilinx Program"** 06/06/2022 –11/06/ 2022, TEQIP-III, R&D Project.

Courses Participated:

1. Participated in Webinar on **"NEP-2020: Changing Role of Teachers"** UGC-CADEMIC STAFF COLLEGE, JNTUH on 06/09/2022.
2. Participated in NaMPET sponsored Five Days [Online] STC on **"Power Electronics Converters' Applications in Microgrid and Vehicular Technology",** The Department of Electrical Engineering, National Institute of Technology Rourkela, on **J**uly 20th-24th, 2022.
3. Participated in a One Week Short Term Training Program on **"Soft Computing Techniques in Electrical Systems" ",** the Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla, During the Period from 14/3/2022 to 19/3/2022.
4. Participated in a One Week Short Term Training Program on "**Latest Trends and Challenges in Electric Vehicle Technology and Battery Management Systems"**, UGC-CADEMIC STAFF COLLEGE, JNTUH, and 4^{th} – 12^{th} October, 2021.
5. Participated in a One Week Short Term Course on "**Soft Skills and Professional Ethics"**, UGC-CADEMIC STAFF COLLEGE, JNTUH from 25-10-2021 to 30-10-2021.
6. Participated in a Two Week online Training Program on **"Emerging Technologies in Electric Vehicles",** the Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla, During the Period from 2^{nd} -14^{th} August, 2021.

7. Participated in a Two day online seminar on "**Quality improvement via accreditation and ranking",** the Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla, During the Period from 28th – 29th June, 2021
8. Participated in a Two Week faculty Development Program on "**Soft Computing Applications in Smart Electric Grids",** EEE Department, KLEF in association with E&ICT Academy, NITW, 16th – 25th June, 2021.
9. Participated in a Three day online training on "**IPR & Predicting patentability through patent prior art searches, patent drafting and filling for scientists, technologists, engineering and faculty**" Engineering staff college of India, Hyderabad from 19th to 21st may 2021.
10. Participated in a Refresher Course on "**Virtualization and Cloud Computing"**, UGC-ACADEMIC STAFF COLLEGE, JNTUH CEH, Hyderabad, from 04-02-2019 to 23-02-2019.
11. Participated in Training on **IMULATION OF ELECTRICAL SYSTEMS USING Mi POWER (9.1Ver),** Bapatla, A.P, India, 23-01-2018 to 25-01-2018.
12. Participated in a Workshop on ***NBA Accreditation and SAR filling***, JNTUH College of Engineering, Hyderabad, 14-12-2017 to 16-12-2017.
13. Participated in a Refresher Course ***on e-Learning and ICT for Teaching & Learning,*** UGC-ACADEMIC STAFF COLLEGE, JNTUH CEH, Hyderabad, 06-03-2017 to 11-03-2017.
14. Participated in a Training on ***PEDAGOGY TRAINING (MODLUE-I)***, NITTTR, CHANDIGARH, 28-10-2013 to 02-11-2013.
15. Participated in a Refresher Course ***on Recent trends in Deregulation of Power Systems***, UGC-ACADEMIC STAFF COLLEGE, JNTUH CEH, Hyderabad, 13-06-2011 to 02-07-2011.

Contact:

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