

# Karunakumar Davala

**About me:** D Karuna Kumar, Assistant Professor of Electrical and Electronics Engineering, completed his M. Tech from JNTU, Hyderabad. He is pursuing Ph.D from JNTUK, Kakinada A.P. Currently working as Assistant Professor in EEE Dept, GRIET since 2009. He is familiar with the softwares like MATLAB, LabVIEW, Arduino, Proteus, PSIM and attending various Workshops in and outside the campus starting from Teaching Methodologies to Research Methodologies.

## Contact Details:

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**Areas of Interest:** Control System, Power Systems, Power Electronics

## Education

- Pursuing PhD, JNTUK, Kakinada, A.P
- M.Tech, JNTUH Hyderabad
- B.Tech, JNTU Hyderabad

## Academic Experience

1. Assistant Professor, Electrical and Electronics Engineering, GRIET, Hyderabad 2009-Present

## R & D Projects

1. NIL

## Selected Publications

1. Published a paper titled "*New Configurations for Hybrid Filters to Improve Power Quality*" published in IJRET journal, Volume No. 4, Special Issue No. 12, NCIDCEME 2015.

## Courses taught :

1. Basic Electrical Engineering
2. Control Systems
3. Electrical Distribution Systems
4. Flexible AC Transmission Systems
5. Microprocessor and Microcontroller
6. Power Electronics

7. Power Systems
8. Computer Organization
9. Digital Electronics

## Workshops Conducted

- ✚ Organized as Faculty Coordinator National Wide Hackathon on **Challenge ACI** held from 11<sup>th</sup> October 2019 to 13<sup>th</sup> October 2019 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Organized as Organizing Member Internationa Conference on **Sustainable Energy and Future Electric Transportation (SeFet 2019)** held from 14<sup>th</sup> February 2019 to 16<sup>th</sup> February 2019 Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Organized as Faculty Coordinator workshop on **IOT with LoRa and Google firebase** held on 20<sup>th</sup> September 2019 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Organized as Faculty Coordinator National Wide Hackathon on **Challenge ACI** held from 12<sup>th</sup> October 2018 to 14<sup>th</sup> October 2018 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Organized as Faculty Coordinator National Conference on **Innovations and Design Challenges in Electrical and Medical Electronics (IDCEME-15)** held from 21<sup>st</sup> August 2015 to 22<sup>nd</sup> August 2015 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Organized as Teachig Assistant Two-Week ISTE Workshop on **Control System** held from 2<sup>nd</sup> December 2014 to 12<sup>th</sup> December 2014 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090
- ✚ Organized as Faculty Coordinator Two-Day Faculty Development Program on **Embedded Systems through Arduino** held from 21<sup>st</sup> March 2013 to 22<sup>nd</sup> March 2013 by Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090

- ✚ Organized as Faculty Coordinator International Conference on ***Mobile Internet Devices*** held from 17<sup>th</sup> December 2010 to 18<sup>th</sup> December 2019 Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.

### **Workshops Attended:**

- ✚ Participated in ATAL Academy AICTE Sponsored five days FDP on ***“Electric Vehicles”*** held from 1<sup>st</sup> September 2020 to 5<sup>th</sup> September 2020 at of Gyan Ganga Institute of Technology and Sciences, Jabalpur, M.P.
- ✚ Participated in One Week National Level Online Faculty Development Program (FDP) on ***“Real Time Aspects of Power System Scenario”*** held from 6<sup>th</sup> July 2020 to 10<sup>th</sup> July 2020 organized by Department of Electrical Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
- ✚ Participated in One Week Online Faculty Development Program (FDP) on ***“Emerging Trends and Challenges in Electrical Engineering”*** held from 22<sup>nd</sup> June 2020 to 27<sup>th</sup> June 2020 at Department of Electrical Engineering, Vaageswari College of Engineering, Karimnagar.
- ✚ Participated in International Online One Week Faculty Development Program (FDP) on ***“Industrial Relevance of Electrical Engineering”*** held from 15<sup>th</sup> June 2020 to 20<sup>th</sup> June 2020 at Department of Electrical and Electronics Engineering, BVRIT HYDERABAD College of Engineering for Women, Nizampet, Hyderabad.
- ✚ Participated in Five Day Online Faculty Development Program (FDP) on ***“Recent Trends In Electrical Engineering”*** held from 8<sup>th</sup> June 2020 to 12<sup>th</sup> June 2020 Department of Electrical Engineering, Vishnu Institute of Technology, Bhimavaram.
- ✚ Participated in One Week Online Faculty Development Program (FDP) on ***“Advances in Electrical Engineering”*** held from 8<sup>th</sup> June 2020 to 13<sup>th</sup> June 2020 Department of Electrical Engineering, PVG’s COET, Pune in association with PES/IAS Chapter, IEEE Pune Section.
- ✚ Participated in One Week Online Faculty Development Program (FDP) on ***“Recent Advances In Electrical Engineering”*** held from 3<sup>rd</sup> June 2020 to 7<sup>th</sup> June 2020 at Department of EEE, VEMU Institute of Technology, Chittoor, A.P

- ✚ Participated in One Week Online Faculty Development Program (FDP) on “***AI, Machine Learning, IoT & Big Data Applications in Power Electronics, and its Allied Areas***” held from 1<sup>th</sup> June 2020 to 6<sup>th</sup> June 2020 at Department of EEE, GRIET, Kukatpally, Hyderabad, Telangana-500090
- ✚ Participated in One Week Online Faculty Development Programme on “***Machine Learning***” held from 1<sup>st</sup> June 2020 to 7<sup>th</sup> June 2020 organized by the PG Department of Computer Science, Auxilium College (Autonomous), Vellore.
- ✚ Participated in 5-Day-National Level Online Faculty Development Program (FDP) on “***Artificial Intelligence***” held from 22<sup>nd</sup> May 2020 to 26<sup>th</sup> May 2020 at Department of CSE & IT, BVRITH in association with Brain O Vision and NYCI.
- ✚ Participated in a 5-Day National Level Online Faculty Development Program on “***Artificial Intelligence***” from 22<sup>nd</sup> May 2020 to 26<sup>th</sup> May-2020 organized by the Department of Information Technology, SIR C.R Reddy College of Engineering, in association with National Youth Council of India and Brain O Vision Solutions India Pvt. Ltd..
- ✚ Participated in One Week Online AICTE MARGDARSHAN FDP on “***Art of Writing Papers and Research Methodologies***” held from 7<sup>th</sup> May 2020 to 13<sup>th</sup> May 2020 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Successfully completed on One-week National FDP & Online Training on “***LaTeX***” organized by initiated by the Sanjay Ghodawat University, Kolhapur in association with Spoken Tutorial Project Indian Institute of Technology, Bombay 27<sup>th</sup> April 2020 to 2<sup>nd</sup> May 2020.
- ✚ Participated in Two Day Online Workshop on “***Online Tools & Software for Remote Teaching - Learning***” held 24<sup>th</sup> April 2020 to 25<sup>th</sup> April 2020 organized by UGC-HRDC, JNTUH, Hyderabad, Telangana State.
- ✚ Successfully completed Online Certification on “***Digital Transformation in Teaching Learning Process***” organized by 16<sup>th</sup> March 2020 to 30<sup>th</sup> March 2020 organized by TEQIP -3 funded by the ministry of HRD, Govt.of India.
- ✚ Participated in One Week Faculty Development Program (FDP) on ***Design Thinking*** held from 18<sup>th</sup> July 2019 to 24<sup>nd</sup> July 2019 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.

- ✚ Participated in One Week Faculty Development Program (FDP) on ***Artificial Intelligence and Machine Learning*** held from 29<sup>th</sup> April 2019 to 4<sup>th</sup> May 2019 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090
- ✚ Participated National Seminar on ***Career Opportunities for Engineers in Infrastructure Management (Power, Civil, Telecom and Transportation)*** held 17<sup>th</sup> April 2019 at Engineering Staff College of India (ESCI), Hyderabad, Telangana-500090.
- ✚ Successfully completed the Short Term Training Programme through ICT Mode on ***Measurement and Control for Industrial Automation*** organized by National Institute of Technical Teacher's Training and Research (NITTTR), Kolkata from 11<sup>th</sup> March 2019 to 15<sup>th</sup> March 2019.
- ✚ Successfully completed the Short Term Training Programme through ICT Mode on ***Indian Electricity Rule and Code of Practices*** organized by National Institute of Technical Teacher's Training and Research (NITTTR), Kolkata from 26<sup>th</sup> November 2018 to 30<sup>th</sup> November 2018.
- ✚ Participated in One Week National level Faculty Development Program (FDP) on ***IoT and Embedded System Design using NI LabVIEW*** held from 18<sup>th</sup> December 2017 to 22<sup>nd</sup> December 2017 at BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana-500090.
- ✚ Successfully completed an AICTE approved Faculty Development Programme (FDP201x) on ***Pedagogy for online and Blended Teaching-Learning Process*** conducted by Indian Institute of Technology Bombay from 14<sup>th</sup> September 2017 to 12<sup>th</sup> October 2017.
- ✚ Successfully completed an AICTE approved Faculty Development Programme (FDP101x) on ***Foundation Program in ICT for Education*** conducted by Indian Institute of Technology Bombay from 3<sup>rd</sup> August 2017 to 7<sup>th</sup> September 2017.
- ✚ Attended National Mission on Education through ICT (MHRD) Sponsored Two-Weeks ISTE STTP on ***Electric Power System*** held from 12<sup>th</sup> June 2017 to 15<sup>th</sup> July 2017 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090
- ✚ Attended Three Days Faculty Development Program on ***Microcontrollers Workshop using Arduino, Tiva-C & MSP430*** held from 02<sup>nd</sup> May 2017 to 04<sup>th</sup> May 2017 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.

- ✚ Attended Two-Week Faculty Development Program on *Open Source Software through TEL by Spoken Tutorials* held from 06<sup>th</sup> September 2016 to 17<sup>th</sup> September 2017 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Attended One-Week Faculty Development Program on *Guide to a Passionate Teacher* by held from 29<sup>th</sup> June 2015 to 04<sup>th</sup> July 2015 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Attended Two-Week ISTE Workshop on *Analog Electronics* held from 4<sup>th</sup> June 2013 to 14<sup>th</sup> June 2013 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Attended Two-day ISTE Workshop on *Aakash for Education* held from 10<sup>th</sup> November 2012 to 11<sup>th</sup> November 2012 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.
- ✚ Attended One Day Workshop on *Enforcement of Intellectual Property Rights in Indian Scenario* held from 25<sup>th</sup> February 2012 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.

## **PUBLICATION**

- ✚ Published a paper titled “*New Configurations for Hybrid Filters to Improve Power Quality*” published in IJRET journal, Volume No. 4, Special Issue No. 12, NCIDCEME 2015.

## **PRESENTATION**

- ✚ Presented a paper titled ““*New Configurations for Hybrid Filters to Improve Power Quality*” in the National Conference on Innovations and Design Challenges in Electrical & Medical Electronics (IDCEME-15) held on 21<sup>st</sup> & 22<sup>nd</sup> August 2015 at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Kukatpally, Hyderabad, Telangana-500090.

## **Guest Lectures National/International**

1. NIL