

Neelamsetti Kiran Kumar, M.Tech, Ph.D.

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🌐 https://scholar.google.com/citations?user=pl_UIAcAAAAJ&hl=en&oi=sra

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Profile

- Description
- Innovative Electrical Engineer with a proven track record in evaluating electrical systems and material in a beneficial manner. A talented Research and development engineer with 6 years experience in research and teaching. Having knowledge in both theoretical and practical of electrical engineering basics such as power system operation and control, renewable energy technology and storage systems.
 - I have experience in MATLAB, SIMULINK environment in modelling of power systems and Control Engineering.

Skills

- Languages
- Strong reading, writing and speaking competencies for English, Telugu, Hindi.
- Softwares
- MATLAB, PSPICE, MiPower, LaTeX, VISIO, ...
- Misc.
- Academic research, teaching, training, LATEX typesetting and publishing.

Employment History

- SEP-2017 - NOV-2020
- **Assistant Professor(Jr.),** Vellore Institute of Technology, Vellore.
 - Done Qualitative Research.
 - Disseminate results via publications, talks and public engagement.
- DEC-2015 – SEP-2017
- **Assistant Professor.** Department of Electrical & Electronics Engineering, Sri Venkateswara College of Engineering & Technology, Etcherla-Srikakulam.
 - Handled undergraduate course classes.
 - Ensured NAAC/AICTE/University Affiliations for the Department through constant monitoring and effective maintenance of documents and records.
 - Involved in establishing and procuring for Power system laboratory.
 - Member of the examination section.
 - Organizing Exam Schedules and Lab works.
 - Conducting Review meetings for the projects of UG and PG wards.
 - Monitoring student progress and providing appropriate feedbacks.

Employment History (continued)

JUNE-2014 – Nov-2015

■ **Assistant Professor**, Department of Electrical & Electronics Engineering, Avanathi's Research & Technological Academy, Bhogapuram,Vizianagaram.

- Handled undergraduate courses and Laboratory sessions.
- Counseling and monitoring in-charge for Electrical department.
- Contributed to the committee charged with the evaluation of hand book and lab manuals.
- Event manager in college and department level.

Education

2017 – 2021

■ **Ph.D., Vellore Institute of Technology** Power systems.

Thesis title: *Analysis of Load Frequency Control in Island Hybrid Power System with Different Energy Storage Systems.*

2012 – 2014

■ **M.Tech. , Gitam University** Power System & Automation.

Thesis title: *Load Frequency Control for A Multi Area Power System Involving Wind, Hydro And Thermal Plants.*

Research Publications

Journal Articles

- 1 **Kirn Kumar, N, & Indra Gandhi, V.** (2020). Design of fuzzy logic controller for load frequency control in an isolated hybrid power system. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1–11.(**Impact Factor=1.851**).
- 2 **Kumar, N Kirn, & Gandhi, V. I.** (2020). Load frequency control for an isolated hybrid power system with hybrid control technique and comparative analysis with different control techniques. *Malaysian Journal of Computer Science*, 78–92.(**Impact Factor=0.625**).
- 3 **Kumar, N Kirn, Gandhi, V. I., Ravi, L., Vijayakumar, V., & Subramaniaswamy, V.** (2020). Improving security for wind energy systems in smart grid applications using digital protection technique. *SUSTAINABLE CITIES AND SOCIETY*, 60.(**Impact Factor=5.26**).
- 4 **Kumar, D. D., Babu, C., Reddy, K. J., Kumar, K., & Kumar, NK.** (2019). An improved p&o mppt control algorithm for increasing power extraction efficiency of solar pv module. *IOP Conference Series: Materials Science and Engineering*, 623.(**Scopus Indexed**)(1), 012020.
- 5 **Paul, S., Indragandhi, V., Kumar, NK, Singh, R. R., & Subramaniaswamy, V.** (2019). An iot based home automation system. *IOP Conference Series: Materials Science and Engineering*, 623.(**Scopus Indexed**)(1), 012014.
- 6 **Poudyal, P. E., Vigneshwar, V., Kumar, NK, Indragandhi, V., & Ali, A. N.** (2019). Design and simulation of phase shifted dc-dc full bridge converter. *IOP Conference Series: Materials Science and Engineering*, 623.(**Scopus Indexed**)(1), 012021.
- 7 **Kumar, N Kirn, & Gandhi, V. I.** (2019). Implementation of fuzzy logic controller in power system applications. *Journal of Intelligent & Fuzzy Systems*, 36(5), 4115–4126.(**Impact Factor=1.851**).
- 8 **Kumar, Neelamsetti Kirn, & Indragandhi, V.** (2018). Analysis on various optimization techniques used for load frequency control in power system. *Serbian Journal of Electrical Engineering*, 15.(**Scopus Indexed**)(3), 249–273.

- 9 **Kumar, N Kiran,** & Naidu, I. (2014). Load frequency control for a multi area power system involving wind, hydro and thermal plants. *vol, 3*, 1008–1013.

Roles And Responsibilities

Conference	Organizing Committee Member in the International Conference on Automation, Signal Processing, Instrumentation & Control (iCASIC-2020) on 27-28 Feb-2020.
	Organizing Committee Member in the 2nd International Conference on Innovations in Power And Advanced Computing Technologies (iPACT-2019) on 28-29 March-2019.
	Organizing Committee Member in the 8th International Conference on Soft Computing for Problem Solving (SocProS-2018) on 17-19 December-2018.
Editor	Editorial Member for IOP Conf. Series: Materials Science and Engineering.
Reviewer	Reviewer for IET-Generation, Transmission and Distribution Journal.
	Reviewer for the 2nd International Conference on Innovations in Power and Advanced Computing Technologies, i-PACT 2019.
	Reviewer for the 8th International Conference Soft Computing for Problem Solving - SocProS 2018.
Inspection	Carried out Third Party Inspection for Quality Monitoring of Works in Villages Electrified under Rajiv Gandhi Grameen Vidyutikarana (RGGVY) Scheme in Visakhapatnam Circle of APEPDCL during Nov & DEC 2013

FDP's & Workshops Attended

Workshops and FDP's

12-16-Oct-2020	FDP , Five days Online Faculty Development Programme on Recent advances in Intelligent System and Nonlinear Control - 2020 (RISNC-2020). At NIT Calicut.
2-3-Aug-2019	FDP , A Two Days FDP on Hands on- Essential Software Tools for Research (Prezi-Mendeley - LaTeX-Visio), At VIT University, Vellore.
29-Aug-2019	FDP , A One Day FDP on Modeling and analysis of special electrical drives for two wheeler EV application.
27-Aug-2019	FDP , A One Day FDP on Modeling and analysis of special electrical drives for two wheeler EV application, At VIT University, Vellore.
13-19-July-2019	FDP , Seven days Program on Solving Multiobjective Optimization Problems using Deterministic & Stochastic Algorithms, At CIT college Coimbatore.
22-26 April-2019	FDP , Five days Faculty Development Programme on Smart Grid, Microgrid and Electric Vehicle, At VIT University, Vellore.
26-Oct-2018	FDP , One Day FDP on Fuzzy logic controller and ANFIS application in Renewable Energy using Matlab, At VIT University, Vellore.
28-29 Sep-2018	Workshop , Two Day Workshop on IEEE-IAS workshop on Smart Health Monitoring.
31-Aug-2018	FDP , A Half-a-Day FDP on Recent trends in Power Systems and Its Applications, At VIT University, Vellore.
03-Aug-2018	Workshop , One day Workshop on Simulation of Electric Motor Drives-Hands on Training, At VIT University, Vellore.
10-Feb-2018	Workshop , One Day Workshop on Power Converters For Fuel Cell Applications, At VIT University, Vellore.
21-22-Oct-2016	Workshop , A Workshop on Photo voltaic cell modeling, interconnection schemes and MPPT Implementation, At VIT University, Vellore.

FDP's & Workshops Attended (continued)

21-22March-2014	📌 Workshop ,Two day National workshop on Recent Trends in Renewable Energy Technology(RTRET-14),At JNTU college of Vizianagaram.
22-Feb-2014	📌 Workshop ,One day National level work shop on Soft Computing Techniques in Estimation and Control (SCTEC-14),At GITAM University.
24-26-Jan-2014	📌 Workshop ,Three days National level Workshop on Power Quality Improvement in Hybrid Energy Syatems, At Maharaj Vijayaram Gajapathi Raj college of Engineering
08-09-Dec-2013	📌 Workshop ,Two Day national level workshop on Wide Area monitoring and control of sustainable power systems (WAMCPS-13) At, GITAM University.
23rd-Nov-2013	📌 Workshop ,One day national workshop on System Identification and Advances in control Techniques (SIACT-13) at GITAM University.

Certification

July-2019	📌 Certified MATLAB Fundamentals. Math Works Training Services.
july-2019	📌 Certified Optimization Techniques in MATLAB. Math Works Training Services..

Online Courses

List Of Courses

21-July-2020	📌 Course , A Course on "Solar Energy Systems Overview", complited in Coursera.
03-July-2020	📌 Course ,A Course on "Electric Power Systems" complited in Coursera
11-Nov-2020	📌 Course ,A course on Programming for Everybody (Getting Started with Python) completed in Coursera.

References

Prof. V. Indragandhi Associate Professor	Dept. of Energy & Power Electronics VIT University, Vellore	📞9750603539 indragandhi.v@vit.ac.in
Prof. Jacob Raglend.I HOD & Professor	Dept. of Electrical Engineering VIT University, Vellore	📞9965853338 jacobraglend.I@vit.ac.in

Personal Details

Full Name:	Neelamseeti kiran Kumar
Place of Birth:	Vizianagaram
Date of Birth:	11-09-1989
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Nationality	INDIAN
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