

Name: **Dr. KIRAN KUMAR KALYANA**

Employee ID: A5EEE00T06



Designation: Professor & Associate HOD

Department: EEE

Date of Birth: 04-11-1979

Father Name: Late K.BHASKARA RAO

Mother Name: K.ANNAPURNA

Reservation Category if Any: SC-B

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Date of Joining in the Institution: 03-08-2016

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D(EEE)	Andhra University, Visakhapatnam	-	Dec 2015
M.E (Control systems)	Andhra University, Visakhapatnam	Second Class	July 2004
B. Tech	JNTU	FIRST Class	May 2001

Total Years of Experience (Teaching/Industry): 23 Years

Period		Organization/Institution/Industry	Designation
Aug 2016	Till Date	AITAM, Tekkali	Professor & Asst HOD

Feb 2016	July 2016	NSRIT, Sontyam	Professor ;HOD
June 2011	Feb 2016	NSRIT, Sontyam	Assoc. Prof.;HOD
Feb 2009	June 2011	AITAM, Tekkali	Assoc. Prof
July 2007	January 2009	AITAM, Tekkali	Sr.Assistant Professor
November 2004	June 2007	AITAM, Tekkali	Asst. Prof.
June 2003	Dec 2004	JITM,Parlakhemundi	Lecturer

Areas of Interest:

- Large scale systems Reduction.
- Model Reduction of Uncertain systems.
- Uncertain Nonlinear systems.
- Design of controllers
- Reduction of Fractional Interval systems.

Ph.D Guiding: NIL

Academic Projects Guided:

- i) Masters Projects : 07
ii) Bachelor Projects : 30

Sponsored Projects:

S. No.	Sponsoring Agency	Title of the Project	Grant
1	DST (ECRA)	Analysis Design and Instillation of 6KW Solar Smart Water Purifier in the Ground water Polluted Areas of KAVITI Mandal – A DEATH ZONE of Srikakulam District, Andhra Pradesh	35,34,248/-

Funding from external agencies:

S. No.	Sponsoring Agency	Title of the Program	Grant
1	AICTE	Short Term Training Program titled “Application of Advanced Techniques to Control Micro grid (AATCM)”	2,90,000/-

Honors and awards received:

Memberships of Professional Societies:

- Life Member of Indian Society for Technical Education, New Delhi, India. LM 56486
- Life Member of Institution of Electronics & Telecommunication Engineers, New Delhi, India. AM 210712
- Member of International Association of Engineers, Hong Kong. LIFE MEMBER 126743.

Other Responsibilities:

1. NBA criteria Coordinator
2. R&D Department Coordinator
3. Asst HOD
4. Student counsellor
5. BOS Member

Details of Publications:

International Journals and conferences:

1. Kiran Kumar. K. and Sastry G.V.K.R. ‘A New Method of Order Reduction for High Order Interval Systems using Least Square Method’, *International Journal of Engineering Research and Applications (IJERA)*, Vol. 2, Issue 2, pp 156 -160, *March, 2012*.
2. Kiran Kumar. K. and Sastry G.V.K.R. ‘An Approach for Interval Discrete-Time Systems Reduction using Least Squares Method’, *International Journal of Engineering Research and Applications (IJERA)*, Vol. 2, Issue 5, pp 2096-2099, *Sept., 2012*.
3. Kiran Kumar. K. and Sastry G.V.K.R. ‘An Algorithm For Interval Continuous –Time MIMO Systems Reduction Using Least Squares Method’, *International Journal of Engineering Research and Applications (IJERA)*, Vol. 3, Issue 2, pp 18-21, *March 2013*.
4. Kiran Kumar. K. and Sastry G.V.K.R. ‘Order reduction of Interval SISO Systems Using Least Square Methods’, 28th *International Conference on CAD/CAM, Robotics and Factories of the Future 2016*, 6th – 8th January 2016, Kolaghat, West Bengal, India Springer.
5. Dr. Kiran Kumar and A.V.S.LAKSHMI. “Stable ROM of a single machine infinite bus power system via Time domain approach”, A National Conference on *Recent Advancements in Power ,Control and Drives for Sustainable Energy (PCDSE-16)*, 4th-5th March,2016.GITAM Institute of Technology, GITAM UNIVERSITY, Visakhapatnam.

6. Dr. Kiran Kumar and Mani Kumar Gutti. “Fuzzy Logic Controller of DFIG to ride through recurring GRID Faults”, *International Journal of Engineering Science and Technology* Vol: 8, issue: 9, pp 209-218, ISSN no, September 2016
7. Dr. Kiran Kumar and Bogaparapu Gayatri, “Uncertain Systems Order Reduction by Modal Analysis Approach”, *Indian Journal of Science and Technology* article no 96367, Vol: 9, issue: 38, Oct 2016. **Indexed in Scopus.**
8. Dr. Kiran Kumar and A.V.S.LAKSHMI. “Analysis and Design of a Controller for an SMIB Power system via Time domain Approach”, *Indian Journal of Science and Technology*, Vol: 9, issue: 44, Nov 2016. **Indexed in Scopus.**
9. Dr. Kiran Kumar and Sai Kartek Vyakaranam, “Reduction of Lower Harmonics and Improve the Efficiency of a wireless charging system by using Quasi –Z-source converter”, *Indian Journal of Science and Technology* , Vol: 9, issue: 45, Dec 2016. **Indexed in Scopus.**
10. Dr. Kiran Kumar and Bogaparapu Gayatri , “ Uncertain system Order Reduction by Aggregation Method” *International journal of Electrical and Computer Engineering* , vol.7 , No. 1, February 2017,pp.244-252 **Indexed in Scopus** .
11. Dr. Kiran Kumar , “ Application of Arithmetic mean for Reduction of Higher Order Interval Systems”, *International Journal of Advanced Research in Electrical ,Electronics and Instrumentation Engineering*, Vol.7, Issue 2, February 2018 ,pp.604-608. UGC Serial number 2928. 10.15662/IJAREEIE.2018.0702035.
12. Dr. Kiran Kumar and Sangeeta Kurman “ Analysis and Design of High Order Discrete Time Interval Systems using New Order Reduction Technique via Least Squares Method and Time Moments Technique”, *International Journal for Research in Applied science and Engineering Technology* ,Vol.6, Issue II February 2018 ,pp.562-569. UGC Approved Serial number 44382. DOI : 10.22214/ijraset.2018.2081
13. Dr. Kiran Kumar and M. Mounika “A Novel Method of Issue Identification in Induction Motors using Smart Sensors ”, *International Journal for Research in Applied science and Engineering Technology* ,Vol.6, Issue III, March 2018 ,pp.369-374. UGC Approved Serial number 44382. 10.22214/ijraset.2018.3058.

14. Dr. Kiran Kumar, "Implementation of Geometric mean for Higher Order Interval Systems", *International Journal of Creative Research Thoughts*, Vol.6, Issue 1, March 2018, pp.88-92. UGC Approved Serial number 49023.

15. Dr. K. Kiran Kumar, K. Sangeeta e.tal. "Order reduction by pole clustering method via shifting about a point 'k'", International conference on New Trends and Engineering, GRT Institute of Engineering and Technology Chennai, Tamil Nadu, September 7th and 8th, 2018 *ICNTET* IEEE Explore Digital Library. IEEE Record #44368.

16. Dr. K. Kiran Kumar, K. Sangeeta e.tal, "A New Algorithm For Reduction Of High Order Commensurate Non Integer Interval Systems", 1st International Conference on Innovative Product Design and Intelligent Manufacturing System, National Institute of Technology, Rourkela India, May 17-18, 2019. pp. 691-701. **Indexed in Springer**

17. Dr. K. Kiran Kumar, B.Srinivas rao, e.tal, "Design and Simulation of Hybrid System Using Cuckoo MPPT Technique", *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol. 8 Issue-6, August 2019 pp.3078-3086. **Indexed in Scopus.**

18. Dr. K. Kiran Kumar e.tal. "Application of modified least squares method for order reduction of commensurate higher order fractional systems", *Indonesian Journal of Electrical Engineering and Informatics (IJEI)*, vol.8, No.1, March 2020, pp-94-102. **Indexed in Scopus.**

19. Dr. K. Kiran Kumar, B.Srinivas rao, "MODELLING AND DESIGNING OF PLUG IN ELECTRIC VEHICLE UNDER G2V COMPATIBILITY", *2nd Innovative Product Design and Intelligent Manufacturing System: National Conference (IPDIMS 2020) lecture notes in mechanical engineering* National Institute of Technology, Rourkela, India during February 12 – 02- 2021. Pages 391-400, **indexed in springer.**

20. Dr. K. Kiran Kumar, B.Srinivas rao, "Power quality improvement using cuckoo search based multi-level FACTS controller", Journal of Engineering Research, SCI (accepted).

21. Dr. K. Kiran Kumar e.tal "Quantitative Analysis of Ground water in Kaviti Mandal –A Renal Failure Zone of Srikakulam, AP, India" Proceedings of the National Academy of Sciences, India Section A: Physical Sciences. Manuscript ID, NASA-D-21-00049 (communicated).

PATENTS:

1. Title of Invention "**Intelligent Solar Power Theft detection technology using WI-FI notification**", **Application No: 202041029285 A, Publication date 31-07-2020.**

2. Title of Invention **“Solar Based smart water purification system in the ground water”**,
Application No: 202041032258 A, Publication date 7-8-2020.

Details of Conferences / Workshops / Refresher Courses Organized:

S. No	Dates	Name of the Programme	Sponsoring Agency
1	1 st and 2 nd March 2013	Workshop ADVANCEMENTS IN CONTROL SYSTEMS & APPLICATIONS (ACSA-2013)	VITS College of Engineering, Sontyam
2	11 th , 12 th & 13 th March 2014	Three day workshop on PLC & Its Application	VITS College of Engineering, Sontyam
3	10 th & 11 th October 2014	Two day workshop on Renewable Energy systems	VITS College of Engineering, Sontyam
4	25-02-2016	Guest Lecture on MATLAB/SIMULINK BASED MODELLING, SIMULATION AND ANALYSIS	VITS College of Engineering, Sontyam
5	6 th & 7 th September 2008	ADVANCES IN ELECTRICAL ENGINEERING”, organized by Department of EEE	AITAM, Tekkali
6	22 nd to 27 th September, 2016	“Optimization Techniques for Electrical Engineering Applications	AITAM, Tekkali
7	1 st march to 4 th march, 2019	Asian e-bike championship	AITAM, TEKKALI
8	10 th & 11 th July 2020	Intelligent computing in Control and Communication (ICCC-2020)	AITAM, TEKKALI
9	15 th to 19 th June, 2020.	Organized Faculty Development programme on Challenges and Research Opportunities in Micro grid Operation, Control and Protection	AITAM, TEKKALI

Details of Conferences / Workshops / Refresher Courses Attended:

Internal:

S. No.	Dates	Name of the Programme	Host Institution
1	9 th AUG, 2020	Preparation of Quality journal Papers and Book Chapters	Aitam
2	15 th September 2020	National Education Policy-what is that we can do ?	Aitam
3	21 st – 25 th FEB 2011	Five day workshop “MISSION10X”,	Aitam
4	29 th – 30 th August 2008	Applications of Mathematics related to engineering (e@math-08)	Aitam
5	22 nd to 27 th September, 2016	Optimization Techniques for Electrical Engineering Applications”	Aitam

External:

S. No.	Dates	Name of the Programme	Host Institution
1	07-09 th July, 2007	Recent Advancements in Modeling & Simulation of Control Systems	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Bhimavaram
2	5 th – 9 th MAY 2008	Short Term Training Programme on “Emerging Trends in Electromechanical Energy Conversion”	GMR INSTITUTE OF TECHNOLOGY, RAJAM
3	10 th – 12 th MAY 2008	“Faculty Awareness Camp on Entrepreneurship”,	GMR INSTITUTE OF TECHNOLOGY, RAJAM
4	25 th & 26 th September 2008	“THE FUNDAMENTALS OF ELECTRICAL CIRCUIT ANALYSIS	Chaintanya Engineering College Kommadi
5	30-11-2009 to 12-12-2009	ADVANCES IN ELECTRICAL POWER AND CONTROL SYSTEMS (AEPCS)	JITM, PARLAKHEMUNDI
6	22 nd February, 2014	Soft Computing Techniques in Estimation and Control (SCTEC-14)”	GITAM UNIVERSITY, VISAKAHAPATNAM
7	28 th March, 2014	Reactive Power Control and Voltage Stability in Power Systems (RPCVS-14	GITAM UNIVERSITY, VISAKAHAPATNAM
8	28th June to 3rd July 2021	Simulation Tools for Electrical Engineering & its real time applications” organized	KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
9	18 th -22 nd May 2020	Cutting Edge technologies for Electrical Engineering	Andhra Loyola College of Engineering and Technology
10	7 th – 16 th May 2020	Research Opportunities in Electrical Engineering	Government College of Engineering ,KARAD
11	8 th =13 th June 2020	Advances in Electrical Engineering	PVG’s College of Engineering & Technology, Pune
12	2 nd june,2020	Software Quality Assurance	Sri Eshwar college of Engineering ,Chennai
13	10 th May 2020	Drafting a Patent Application & Procedure for Filing an Indian Patent	Vignan Pharmacy Guntur
14	29 th june to 1 st July 2021	Driving Technologies for Electrical systems	Andhra Loyola College of Engineering and Technology

Certifications:

1. Got certified from coursera online certification course (8 Week) on “Neural Networks and Deep Learning” in May 2020
2. Got certified from coursera online certification course (8 Weeks) on “Programming for Everybody (Getting Started with Python)” in July 2020.
3. Got certified from coursera online certification course (4 Weeks) on “AI for everyone” in June 2020
4. Got certified from coursera online certification course (4 Weeks) on “Electric Power Systems” in May 2020

Other Achievements:

- Ratified by JNTU Hyderabad as Assistant professor Lr.No.RP/PVP/Selections/2006 dt: 23.08.2006.
- Ratified by JNTU Kakinada as Associate professor Lr.No.JNTUK/DAA/List of Faculty Ratified by JNTU Kakinada dt: 12-06-10.
- Ratified by JNTU Kakinada as Professor Lr.No. JNTUK/Registrar Peshi/Ratify Principal & Faculty /2016 dt: 06-06-2016.
- Editorial member of International Electrical Engineering Journal (IEEJ)
- Reviewer of International Journal of Engineering Research & Technology (IJERT) (ISSN: 2278-0181)
- Reviewer of Journal of the Institute of Engineers (India): series B
- Reviewer of International Journal of Power and Energy Conversion Inderscience



Signature