

Name: B.Manmadha Kumar

Employee ID: A5EEE00T30

Designation: Senior Assistant Professor

Department: EEE

Date of Birth: 22-06-1982

Father Name: Suryanarayana

Mother Name: Tulasamma

Reservation Category if Any: BC- 'A'

Address: Pujaripeta, Amadalavalasa.

Mobile Number: 9908738124

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Date of Joining in the Institution: 26-04-2012

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D	AU, Visakhapatnam		D.O.J- 27-03-2014
M. Tech (PEED)	JNTU, Kakinada	FIRST class	Dec.-2009
B. E(EEE)	AU, Visakhapatnam	FIRST class	Sep.-2004

Total Years of Experience (Teaching/Industry): 9 Years

Period		Organization/Institution	Designation
April 2012	Till Date	AITAM, Tekkali	Sr. Asst. Prof.
July 2011	April 2012	Sri Sivani College of Engineering, Chilakapalem	Assoc. Prof.
June 2007	July 2011	Sri Sivani College of Engineering, Chilakapalem	Asst. Prof.
December 2004	June2007	SISTAM, Srikakulam	Asst. Prof.

Areas of Interest:

1. Power Electronics
2. FACTS
3. Non-Conventional Energy sources
4. Load Frequency Control



Guidance of Academic Projects:

- i) Doctoral Projects : Nil
- ii) Masters Projects : 3
- iii) Bachelor Projects : 6

Sponsored Research Projects: ----**Funding from external agencies:****Honors and awards Received: ----****Memberships of Professional Societies and Other Organizations:**

ISTE Life Member (LM71471)

Other Responsibilities:

- 1. B. Tech Course Coordinator.
- 2. B. Tech Project Coordinator.
- 3. IQAC Member.
- 4. Department Time Table In-charge.

Details of Book Publications: ---**Details of Publications:**

- 1. B.Manmadha Kumar, S.Acharya, G.T.Chandra Sekhar “Hybrid Model of Linear Dynamic Systems using Eigen spectrum Analysis” NSPEES-2012 GIET-Bhubaneswar.
- 2. G.T.Chandra Sekhar, K.Alfoni Jose, L.V.Suresh Kumar, B.Manmadha Kumar “Modelling and Simulation of Induction Motor with Different Reference Frames” NSPEES-2012 GIET- Bhubaneswar.
- 3. D. Vijaya Kumar , B.Manmadha Kumar , I.Ramesh , A.Jagannadham “Static Voltage Collapse Studies In Power Systems” International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April-2014, 338 – 343, ISSN 2229-5518.
- 4. Srinu Duvvada, Manmadha Kumar B “ A Single Phase to Three Phase PFC Half-Bridge Converter Using BLDC Drive with SPWM Technique” International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 4, Issue 7(Verson 3), July 2014, pp. 31-38.
- 5. Navagana Srikanth, B.Manmadha Kumar “A Decisive Characterization of Multi-Phase Converter Stratagy Fed Induction Drive for EV Applications” International Journal of Electrical and Electronics Engineering (IJEEE) ISSN: 2319-8885 Volume-4, Issue-4, 2014.

6. D. Narendra Kumar, Halini Samalla, Ch. Jaganmohana Rao, Y. Swamy Naidu, K. Alfoni Jose and B. Manmadha Kumar “Position and Orientation Control of a Mobile Robot Using Neural Networks” International Conference on Computational Intelligence in Data Mining - Volume 2, Smart Innovation, Systems and Technologies 32, DOI 10.1007/978-81-322-2208-8_13.
7. Halini Samalla, N.V.A.Ravikumar & Manmadha Kumar B “Analysis and Design of PID controller for Multi-Area Power System in the presence of Delay and TCSC” International Journal of Advanced Engineering and Global Technology ISSN No: 2309-4893, Vol-03, Issue-02, February 2015.
8. M.Venkatesh, B.Manmadhakumar & Srinivasa Acharya “SHE–PWM Cascaded Five level Inverter with Adjustable DC Voltage Levels Control for D-STATCOM Applications” International Journal of Innovative Research in Science, Engineering and Technology, ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710, Vol. 5, Issue 10, October 2016, DOI:10.15680/IJIRSET.2016.0510087.
9. B.Manmadhakuamr, N.Premakumar, “Design and Analysis of Firefly Algorithm based PID Controller for Automatic Load Frequency Control Problem”. IEEE International Conference on Technologies for Smart-City Energy Security and Power (ICSESP-2018), March 28-30, 2018, Bhubaneswar, India.
10. Tulasichandra Sekhar Gorripotu, Darapureddi Vijaya Kumar and Manmadha Kumar Boddepalli, Ramana Pilla, “Design and analysis of BFOA optimised PID controller with derivative filter for frequency regulation in distributed generation system”, Int. J. Automation and Control, Vol. 12, No. 2, 2018, 291-323.
11. B.Manmadhakuamr, N.Premakumar “Firefly Algorithm Based PID Controllers for Automatic Load Frequency Control In Different Power Systems” International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019.
12. Manmadha Kumar Boddepalli and Prema Kumar Navuri, “Application of Fuzzy Controller for Multi-area Automatic Load Frequency Control System” Innovative Product Design and Intelligent Manufacturing Systems, Springer Lecture Notes in Mechanical Engineering- March 2020.
13. Prema Kumar Navuri, Manmadha Kumar Boddepalli, “Performance Analysis of PID Controllers for Automatic Load Frequency Control of Multi-area Power System” International Journal of Control and Automation, Vol. 13, No. 4, (2020), pp. 366 – 377.

14. Implementation of Firefly Algorithm Employed PID controller for an Interconnected Power System “INTELLENT COMPUTING IN CONTROL AND COMMUNICATION”, Springer Lecture Notes in Electrical Engineering- Volume 702(2020).

Details of Conferences / Workshops / Refresher Courses Organized:

1. Conducted a National Level Technical Symposium “DAKSHATA-2011” as a Convener in Sri Sivani College of Engineering on 11th & 12th March, 2011.
2. Organized a Short Term Training Programme on “Soft Computing Applications to Power Systems”-(SOFTCAPS) as a Co- Convener during 26th to 28th December 2013.
3. Organized One Week FDP on “Effective solutions to Smart Grid” during 4th to 8th April 2015 as a Co-convener.
4. Organized a SERB- DST New Delhi sponsored Two day National Conference on “Recent trends in Power Electronics and Drives” as a Co- Coordinator from 22nd to 23rd January, 2016.
5. Organized One-Week Faculty Development Programme On “Optimization Techniques for Electrical Engineering Applications” as a Co-Convener during 22nd to 26th September 2016.
6. Organized SERB, DST- New Delhi Sponsored Two day National Conference On “Applications Of Evolutionary Algorithms In Power Systems” (AEAPS – 2017) as a Co-Convener on 28.04.2017 & 29.04.2017.
7. Organized Springer International Conference On “Intelligent Computing in Control and Communication” (ICCC-2020), as Organizing and Publication Chair on 7th & 8th August, 2020.
8. Organized ATAL Sponsored one week online FDP on “Electric Vehicles” as Co-coordinator during 16th to 20th November, 2020
9. Organized AICTE SPONSORED STTP on “Application of Advanced Techniques to Control Micro Grid” as Co- coordinator during 6th – 11th April 2021.

**Details of Conferences / Workshops / Refresher Courses Attended:
Internal:**

S. No.	Dates	Name of The Programme	Host Institution
1	16 th -29 th April 2012	Soft Computing Application to Power System and Control MATLAB	AITAM, Tekkali
2	19 th Jan, 2013	Outcome Based Education (In compliance with NBA Accreditation)	AITAM, Tekkali
3	26 th to 28 th December 2013	Soft Computing Applications To Power Systems	AITAM, Tekkali
4	6 th December 2014	Outcome Based Education	AITAM, Tekkali
5	9 th March 2015	Outcome Based Education	AITAM, Tekkali
6	4 th to 8 th April 2015	Effective solutions to Smart Grid	AITAM, Tekkali
7	22 nd to 26 th September 2016	Optimization Techniques for Electrical Engineering Applications	AITAM, Tekkali
8	13 th to 14 th July, 2019	Outcome Based Education	AITAM, Tekkali
9	27 th January to 1 st February, 2020	LabVIEW in Engineering & Academic Research	AITAM, Tekkali
10	15 th – 19 th June 2020	Five Day Online Faculty Development Programme on Challenges and Research Opportunities in Micro Grid Operation, Control and Protection	AITAM, Tekkali
11	16 th – 20 th November 2020	ATAL FDP On “Electric Vehicles” (Online)	AITAM, Tekkali
12	6 th – 11 th April 2021	AICTE SPONSORED STTP on “Application of Advanced Techniques to Control Micro Grid”	AITAM, Tekkali

External:

S. No.	Dates	Name of The Programme	Host Institution
1	30 th June & 1 st July 2014	Synchrophasor Applications to Power Systems	AU College of Engineering(A)- Visakhapatnam
2	30 th November- 5 th December-2015	Modeling and simulation of hybrid power generation system	VSSUT- Burla
3	6 th -10 th June, 2016	Power Quality in Deregulated Power System with MATLAB Applications	NIT- Hamirpur
4	13 th to 17 th September, 2016	Process Automation and Research Opportunities	AU College of Engineering(A)- Visakhapatnam
5	25 th & 26 th March 2017	Green Power Technologies For Healthy Environment- Issues And Opportunities	AU College of Engineering(A)- Visakhapatnam
6	28 th -30 th March, 2018	IEEE International Conference on Technologies for Smart-City Energy Security and Power (ICSESP-2018)	C.V.Raman College Bhubaneswar
7	22 nd – 27 th November, 2018	IEEE CIS Summer School- 2018	MJCET- Hyderabad
8	17 th to 18 th May, 2019	International Conference on Innovative	NIT- Rourkela

		Product Design and Intelligent Manufacturing Systems (ICIPDIMS)	
9	8 th – 10 th August 2019	International Conference on Innovations in Power, Energy and Intelligent Control Systems (IPEICS-2019)	Vignan University-Guntur
10	22 nd May 2020	Webinar on “ Guidelines for Writing a Research Paper” (Online)	Arasu Engineering College, Kumbakonam
11	18 th -22 nd May 2020	Five day National Level online FDP on “Cutting-Edge Technologies for Electrical Engineering” (online)	Andhra Loyala Institute of Engineering and Technology, Vijayawada
12	23 rd May 2020	Online webinar on “Overview on Electrical Safety and Instrumentation” (online)	Miracle Educational Society- Bhogapuram
13	1 st – 5 th June 2020	Five day FDP on “Research opportunities in Electrical Engineering” (Online)	Tirumala Engineering college- Narsaraopet
14	1 st – 2 nd June 2020	Two day FDP on “Research Methodology”	Jeppiaar Institute of Technology, Sriperumbudur

Online courses Completed:

1. Completed 12 week NPTEL Online Certification Course on “Non-Conventional Energy Sources” – Conducted by IIT-Madras.
2. Completed 12 week NPTEL Online Certification Course on “Power Systems Engineering” – Conducted by IIT-Kharagpur.

Other Achievements:

1. Ratified as Assistant Professor by JNTU- Kakinada on 3rd April, 2013.
2. Established New Electrical Technology Lab in July 2012.

(Manmadha Kumar. B)