


## FACULTY PROFILE

Name of the Faculty:	Dr.N.KARTHIK					
Designation:	ASSOCIATE PROFESSOR					
Department:	EEE					
Date of Birth:	24-07-1982					
AICTE – ID:	1-425542428					
<b>Education</b>	<ul style="list-style-type: none"> <li>• <b>Ph.D</b> in Power Quality awarded in June,2018 from J.N.T.U, Kakinada.</li> <li>• <b>M.Tech</b> in Power Systems with First Class with Distinction from BIHER, Deemed University, Chennai, 2003-2005.</li> <li>• <b>B.Tech</b> in EEE,with First Class with Distinction from JNTU, Hyderabad,1999-2003</li> </ul>					
<b>Experience</b>	Teaching: 18 years	Industry: ____Years	<b>Total: 18 Years</b>			
	Research: ____Years	Others: ____Years				
<b>Research Specialization</b>	Power Systems, Power Quality, AI Applications to Power Systems					
<b>Courses taught</b>	<ol style="list-style-type: none"> <li>1. Circuit Theory</li> <li>2. Power Systems-I</li> <li>3. Power Systems -II</li> <li>4. Generation &amp;Transmission</li> <li>5. Electrical Machine Design</li> <li>6. Power System Operation and Control, Stability</li> <li>7. Computer Aided Power System</li> <li>8. Electrical Power Distribution System</li> <li>9. Power System Analysis</li> <li>10. Real Time Applications in Power Systems</li> <li>11. Computer Methods in Power Systems</li> </ol>					
<b>Research contributions</b>						
<b>International/national peer reviewed journals</b>						
<b>S. No.</b>	<b>Title of paper</b>	<b>Journal</b>	<b>Year</b>	<b>Volume</b>	<b>pages</b>	<b>Indexing SCI/WoS/ SCOPUS, Google scholar)</b>
<b>1</b>	State Estimation for Electric Power	IJRITCC	<b>2023</b>	<i>Volume:</i>		Scopus

	System with Load Uncertainty and False Data Using Cuckoo Search Algorithm			<i>11</i> <i>Issue: 4s</i>		
<b>2</b>	Grey Wolf Optimizer and Cuckoo Search Algorithm for Electric Power System State Estimation with Load Uncertainty and False Data	IJRITCC	<b>2023</b>	<i>Volume:</i> <i>11</i> <i>Issue: 2s</i>		Scopus
<b>3</b>	Optimization for Position and Rating of Distributed Generating units using Harris Hawk Optimization Algorithm to Reduce Power Losses	Journal of Electrical Systems	June 2022	Volume 18	205-216	Scopus/WOS
<b>4</b>	Optimum Restructuring of Radial Distribution Network with Integration of DG and DSTATCOM using Artificial Fish Swarm Optimization Technique	IEEE CONFERENCE	Aug 2022			conference
<b>5</b>	Bacterial Foraging Optimization Technique for Optimal Reorganization of Radial Distribution Network with Inclusion of DG and DSTATCOM	International Journal of intelligent systems and applications in engineering	Dec 2022	Volume 10	658–663	<b>Scopus/WOS</b>
<b>6</b>	Cuckoo Search Optimization Algorithm for DG and DSTATCOM Optimal Allocation in Radial Distribution System	Computer Integrated Manufacturing Systems	Dec 2022	Volume 28	1006-5911	<b>Scopus/WOS</b>
<b>7</b>	Impact on radial distribution system by Integrating wind power with zip load considering load growth	AICTE Sponsored E-Conference on Systems Modelling and System Dynamics, Bapatla	24 <sup>th</sup> – 28 <sup>th</sup> Aug 2020.			conference
<b>8</b>	A novel control strategy for power quality Improvement using fuzzy controller based shunt Active power filter	First International Conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016)				conference
<b>9</b>	Optimization for Position and Rating of Distributed Generating units using Harris	Journal of Electrical Systems	June 2022	Volume 18	205-216	<b>Scopus/WOS</b>

	Hawk Optimization Algorithm to Reduce Power Losses					
10	Optimum Restructuring of Radial Distribution Network with Integration of DG and DSTATCOM using Artificial Fish Swarm Optimization Technique	IEEE CONFERENCE	Aug 2022			Conference
11	Bacterial Foraging Optimization Technique for Optimal Reorganization of Radial Distribution Network with Inclusion of DG and DSTATCOM	International Journal of intelligent systems and applications in engineering	Dec 2022	Volume 10	658–663	Scopus/WOS
12	POWER LOSS MINIMIZATION IN A RADIAL DISTRIBUTION NETWORK BY OPTIMAL SIZING AND PLACEMENT OF ENERGY STORAGE UNITS.	IJRITCC	2023	Vol: 11 Issue: 4s	280-287	SC OPUS
13	INVESTIGATION OF POWER SAVING AND OPTIMAL PLACEMENT OF ENERGY STORAGE UNITS IN ACTIVE DISTRIBUTION NETWORK WITH REFERENCE TO CONSERVATION VOLTAGE REDUCTION AND CONTINGENT LOAD CONFIGURATION.	IJISAE	2023	Vol: 11 Issue: 6s	301–310	SCOPUS

**Books published**

S. No.	Title of the book	Publisher	year
1			

**Book chapters Published**

S.No.	Title of the Chapter	Book title	Publisher	year
1				

**Details of Patents (Filed & Granted)**

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted

1	202041035792 A	PORTABLE PELTIER AIR CONDITIONER	19/08/2020	11/09/2020
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**Details of Conferences/FDPs/STTPs/webinars/Workshops Organized**

S.No.	Name of the event	Role	Dates
1.	“New Trends in Electrical Power Systems”	Co-ordinator	01-05-23 to 03-05-23
2.	PCB DESIGN & FABRICATION	Committee member	28th to 30th July 2022
3.	One-week STTP (Design Implementation and Control of Electrical Systems using MATLAB)	Committee member	3rd-7th January 2023
4.	Three-day Workshop (New Trends in Electrical Power Systems)	Committee member	1-3rd May 2023
5.	Two Day Workshop (“Research Report and Article Writing using LaTeX Software)	Committee member	17th-18th March 2023
6.	Emerging Technologies in Electric Vehicles Organized by Bapatla Engineering college	Committee member	02.08.2021 to 14.08.2021
7.	Virtual Substation Visit (400/132KV SS Maharashtra)	Co-ordinator	22.03.2021
8.	Two week online short term training program on “emerging technologies in electrical vehicles	Committee member	02-08-2021 to 14-08-2021
9.	webinar (Design & Analysis of Electrical models using MATLAB	Committee member	9th & 10th July 2021

**Details of Conferences/FDPs/STTPs/webinars/Workshops Participated**

S.No.	Name of the event	Organized by	Dates
1.	ATAL FDP on “Applications of Power Electronics in Electric Vehicles”	AICTE	12-12-22 to 23-12-22 (Two Week)
2.	NPTEL workshop on Introduction to smart grid	NPTEL	July to September 2022 08 weeks
3	National Conference on Emerging Technologies in Energy Systems (NCETES-2020)		11 <sup>th</sup> September 2020

**Awards/recognitions/achievements**

<b>S.No.</b>	<b>Name of the Award</b>	<b>Awarding body/Society/Organization</b>	<b>Year</b>
<b>1</b>			

**Details of project proposals submitted/sanctioned/completed**

<b>S.No.</b>	<b>Title of the Project</b>	<b>Funding body</b>	<b>Submitted/ Sanctioned/ Completed</b>	<b>Amount</b>	<b>Year/ duration</b>

**Consultancy contribution**

<b>S.No.</b>	<b>Year</b>	<b>Amount</b>	<b>Details</b>
<b>1</b>			

**Student Project/research guidance**

<b>S.No</b>	<b>Level</b>	<b>Total number</b>	
<b>1</b>	<b>UG</b>	<b>Completed: 18</b>	<b>Ongoing: 1</b>
<b>2</b>	<b>PG</b>	<b>Completed: 6</b>	<b>Ongoing:</b>
<b>3</b>	<b>PhD</b>	<b>Completed:</b>	<b>Ongoing:4</b>

**Administrative experience**

<b>S.No.</b>	<b>Role</b>	<b>Duration (From – to)</b>
<b>1</b>	<b>Department NAAC Co-ordinator</b>	<b>JUNE 2009 to Till date</b>
<b>2</b>	<b>Department NBA Coordinator</b>	<b>MARCH 2016 to till date</b>
<b>3</b>	<b>Control Systems Lab In charge</b>	<b>JUNE 2007 to Till date</b>
<b>4</b>	<b>Guest House In charge</b>	<b>June 2017 to Aug 2023</b>
<b>5</b>	<b>Mal Practice Committee Member</b>	<b>June 2017 to Jun 2022</b>
<b>6</b>	<b>Final Year Course Coordinator</b>	<b>June 2018 to till date</b>

**Research credentials**

<b>Index/database</b>	<b>ID/Link</b>
Google Scholar	<a href="https://scholar.google.com/citations?user=mlYiQh8AAA&amp;hl=en">https://scholar.google.com/citations?user=mlYiQh8AAA AJ&amp;hl=en</a>
SCOPUS	<b>57356264200</b>
Web of Science	
Vidwan ID	
<b>Any other relevant information</b>	
(Dr.N.Karthik) (12-09-2023)	