


FACULTY PROFILE

Name of the Faculty:	Dr.P. SAMPATH KUMAR					
Designation:	Assistant Professor					
Department:	Electrical and Electronics Engineering					
Date of Birth:	02-08-1982					
AICTE – ID:	1-425503467					
Education	<ul style="list-style-type: none"> • B.Tech in Electrical and Electronics Engineering from JNTUH, Hyderabad University in 2004. • M.Tech in Control Systems Engineering Specialization from JNTUA, Anantapur University in 2007. • PhD in Power Quality specialization from JNTUK, Kakinada University in Feb,2020. 					
Experience	Teaching: 16 Years	Industry: 1 Years	Total: 17 Years			
	Research: 9 Years	Others: ____ Years				
Research Specialization	Grid Integrated EV and PV systems with mitigation of power quality using new topology and adaptive controlled optimized methods.					
Courses taught	1.Advanced Power Electronics & SMPS. 2.DC & AC Machines and Drives. 3.Linear & Adaptive Control Systems. 4.Circuit Theory & Network Analysis. 5.FACTS & HVDC Systems.					
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/ SCOPUS, Google scholar)
1	The Effect of Stir-Squeeze Casting Process Parameters on Mechanical Property and Density of Aluminum Matrix Composite	Advances in Materials Science and Engineering	2022	3741718	1-10	SCI
2	An Improved Lyapunov Function Based Control Strategy for Multitasking Distributed PV Inverter	Journal of The Institution of Engineers, SPRINGER	2020	21(14)	1-8	ESCI
3	Strategic demand response frame work for energy management in distribution	Energy & Environment Journal	2020	31(18)	1-9	SCI

	system based on network loss sensitivity					
4	Power Quality Profile Enhancement Using Hybrid Fuzzy Logic Control Based Multi Converter UPQC In Distribution System	JARDCS	2018	10	2620 - 2632	SCOPUS
5	Improving quality of power using try converter unified power quality conditioner (T-UPQC)	ARPN	2018	13	2124-2131	SCOPUS
6	IOT BASED STREET LIGHT AUTO INTENSITY CONTROL AND FAULT DETECTION	IJERT	2022	11	203-207	UGC
7	Understanding Key Business Processes Outsourcing Transition, International Journal Of Engineering Research & Technology	IJERT	2020	8	156-162	UGC
8	A fuzzy based multi-functional DSTATCOM operating under stiff source	IJARLT	2017	8	2195-2199	UGC
9	Modeling and Control of Custom Power Devices In Order To Improve the Quality of Power	IJPRES	2017	8	215-220	UGC
10	Modeling and Design of Series Voltage Compensator for Reduction of DC- Link Capacitance fed Industrial Drive Applications	International Journal of Research	2016	3	981-987	UGC

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	A PI with fuzzy based multifunctional DSTATCOM operating under stiff source	Energy Springer Journal	SPRINGER	2020

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published /granted
1	202141052091A	Data-Driven Approaches for Cyber Defense of Battery Energy Storage Systems.	13/11/2021	Published
2	202241000060A	Demand Response Management with Micro Grid for Smart house holds applications.	01/01/2022	Published
3	202241025614A	Hybrid Micro Grid Topology System for Rural Area.	02/05/2022	Published
4	202341043272A	Deep Learning (DL) Techniques for Prevention Of Train Accident & Prediction Of Breakdown in the System.	28/06/2023	Published

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	Two Week Online Short-Term Training Program On “Emerging Technologies in Electrical Vehicles”.EEE Dept, BEC bapatla	Convener	02/08/2021 to 14/08/2021
2	Acted as resource person BMC webinar for IIC innovation cell on business model canvas, for BEC,Bapatla.	Resource Person	05/06/2021
3	Challenging Avenues & Research on Fuel Cell Operated Electric Vehicle Retrofitting, organized by Department of EEE, BEC, Bapatla.	Convener	6/01/2020 to 10/01/2020
4	Solar Ambassador Workshop, is being organized by IIT Bombay on 2nd October, 2019, marking the 150th Birth Anniversary of Mahatma Gandhi, wherein hands-on training will be given to students to make their own solar study lamp , at BEC Bapatla.	Mentor	1/05/2019 to 31/05/2019
5	A One Day Industrial Training Programme On Making And Testing Of Industrial Electric Apparatus. organized by Department of EEE, BEC, Bapatla.	Organizer	30/09/2019
6	Training program on LabVIEW professional software and power electronics ELVIS delivered by NI electricals on LabView, Mi Rio, BEC Bapatla	Organizer	20/03/2018 to 21/03/2018

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

S.No.	Name of the event	Organized by	Dates
1	System Modeling and System Dynamics (NCMSD-2020) Conference	BEC, Bapatla	22/06/2020 to 25/06/2020
2	Power Electronics (IICPE) Conference	IEEE PELS-IES , MNIT, Jaipur	13/11/2018 to 15/11/2018
3	ICONSEA-2018 Conference	JNTUH	04/10/2018
4	ICIIECS-2016 Conference	IIT BOMBAY	19/12/2016
5	IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)	EGS Pillay Engineering College, Nagapattinam	29/03/2013 to 30/03/2013
6	Electrical Sciences (ICES-2012) Conference.	SASTRA University, Thanjavur, India	12/09/2012
7	Introduction to Smart Grid, NPTEL	NPTEL	01/07/2023 to 24/09/2023
8	DC Micro Grid and Control	NPTEL	01/07/2023 to 24/09/2023
9	E-learning program on Transformer Conducted by TATA Steel	TATA Steel	11/04/2020 to 16/04/2020
10	E-learning program on Power System Transmission and Distribution	TATA Steel	15/04/2020 to 21/04/2020
11	E-learning program on Power System Power Cables	TATA Steel	21/04/2020 to 27/04/2020
12	E-learning program on Induction Motor	TATA Steel	13/04/2020 to 17/04/2020
13	On “Construction Project Management “The state University of New York.	Coursera	04/05/2020 to 29/05/2020
14	On “Machine Learning for All ” The state University of New York, Coursera	Coursera	01/05/2020 to 29/0/2020
15	On “Solar Energy Basics ” The state University of New York, Coursera	Coursera	03/05/2020 to 29/05/2020
16	On “Water Supply and Sanitation Policy in Developing Countries Part 2: Developing Effective Interventions” by The state University of New York.	Coursera	01/05/2020 to 02/06/2020
17	On “Cybersecurity and the Internet of Things” by The state University of New York Coursera	Coursera	06/05/2020 to 10/06/2020

Awards/recognitions/achievements

S. No.	Name of the Award	Awarding body/Society/Organization	Year
1	Best Teacher Award	BEC, Bapatla	2021
2	Excellence in reviewing from international journal of electrical power system and technology.	International journal of electrical power system and technology.	2022
3	Received a letter of appreciation from Institution's innovation council for the continuous support and contribution towards building the innovation and entrepreneurship culture development in the campus and also extending support to help other IIC institutions towards growth of the IIC network.	MOE's Innovation Cell (Government of India)	2022

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
1	Challenges in the solar energy conversion & solving industry Energy Storage Technologies.	Council of Scientific and Industrial Research (CSIR)	Submitted	Rs.1,90,000-00	2020-2021

Consultancy contribution

S.No.	Year	Amount	Details
1			

Student Project/research guidance

S.No	Level	Total number
1	UG	Completed: 30 Ongoing:2
2	PG	Completed: 3 Ongoing: -
3	PhD	Completed: - Ongoing: -

Administrative experience

S.No	Role	Duration (From – to)
1	Additional Controller of Examinations.	2023-2024
2	Power Electronics Lab In charge since 2009.	2009-2024
3	NBA Criteria-V & NAAC Criteria III Coordinator for EEE Department.	2008-2024
4	Worked as Squad Convener.	2020-2023
5	Centre for Innovation Incubation and Entrepreneurship (CIIE).	2020-2023
6	Worked as Malpractice Committee Convener.	2020-2024

7	Worked as Time-Table In charge for two Years in Department of EEE.	2015-2016
8	Appointed as Department Staff Redressal Committee Member (DSRC).	2009-2024
9	Appointed as BECTAGON 2k20 Publicity and Registration coordinator.	2022-2023

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?user=8WelmCUAAAAJ&hl=en
SCOPUS	https://www.scopus.com/home.uri
Web of Science	HHZ-2360-2022
Vidwan ID	324405

Dr.P.SampathKumar
Date:20-09-2023