


FACULTY PROFILE

Name of the Faculty:	Dr Ravindra Janga		
Designation:	Assistant Professor		
Department:	EEE		
Date of Birth:	14-04-1984		
AICTE – ID:	1-426127267		
Education	<ul style="list-style-type: none"> B.Tech in EEE from SCR Engineering College, Chilakaluripet in 2004. M.Tech in Control Systems Specialization from College of Engineering, Pune Formerly University of Poona in 2010. PhD in Electrical & Electronics Engineering from Jawaharlal Nehru Technological University, Hyderabad in 2018. 		
Experience	Teaching: 14Years	Industry: ____ Years	Total: 14Years
	Research: ____ Years	Others: ____ Years	
Research Specialization	Controller Design Issues, Power Converters, DC-DC Converters, Renewable Energy Systems, Fast Charging of EVs, Internet of Things		
Courses taught	(1) Modern Control Theory. (2) Control Systems. (3) Electrical Measurements. (4) Generation of Electrical Power. (5) Transmission and Distribution. (6) Utilization of Electrical Power. (7) Switch Gear and Protection. (8) FACTs Controllers. (9) Electrical Technology. (10) Power System operation & Control. (11) Digital Control Systems. (12) Electrical Machines (13) Circuit Theory. (14) Engineering Drawing. (15) Electrical & Electronics Engineering (16) Transformers & Induction Motors (17) Synchronous & Special Machines (18) Switched Mode Power Supply Systems etc..		
Research contributions			
International/national peer reviewed journals			

S. No.	Title of paper	Journal	Year	Volume	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Performance Evolution of Small Signal Model based Peak Current Mode Controller for Off-board Fast Charging DC-DC Converter	IEEE INDICON – 2020 conference proceeding	2021	DOI: 10.1109/9/INDICON49873.2020.9342288/	pp.1-6.	cluded in EE Xplore
2	Design of Conventional Controller for KY Converter based Standalone Hybrid System with State Space Modelling	International Journal of Engineering Research & Technology (IJERT) ISSN (Online) : 2278-0181	2021	Volume 8 Issue 16	Pages 187-191	Goo e Scholar
3	Comparative Performance Evaluation of High Switching Frequency DC-DC Converters with Conventional PI and Fuzzy Logic Controller	International Journal for Scientific Research & Development	2021	Volume 8 Issue 4	Pages 443-448	Goo e Scholar
4	Smart Mirror through Facial Recognition with Real-Time, Date and Time, Weather Forecast	International Journal of Current Research	May 2023	Volume 15; Issue 05;		Goo e Scholar
5	“A Case Study of Energy Conservation Using Python in Bapatla Engineering College, Andhra Pradesh”	Asian Journal of Electrical Sciences ISSN: 2249-6297	2021	Vol.10 No.2	pp.40-43	Goo e Scholar
6	“Fast Charging of Electric Vehicle using an IOT Appliances”,	International Research Journal of Engineering and Technology (IRJET)	2022	Volume: 09 Issue: 05		Goo e Scholar
7	“Performance Evaluation of Constant Current Controllers used in Fast Charging of Electric Vehicle with Fuel Cell System”	Journal of Advanced Research in Dynamical & Control Systems	2020	Vol. 12, 02- Issue,	2205-2215	Sco us
8	“Design of Conventional Controller for KY Converter based standalone hybrid system with state space modeling”	International Journal of Engineering Research & Technology	2020	Vol.8 Issue 16	Pp.187-191	UGC approved

		(IJERT) IJERT				
9	“An Improvement in Performance of Grid Connected Electric Vehicle Fast Charging with Sliding Mode Controller”	Studies in Indian Place Names	2020	Vol. 40. Issue.74	pp.1168-1175	UGC approved
10	“Comparative Performance Evaluation of High Switching Frequency DC-DC Converters with Conventional PI and Fuzzy Logic Controller”	International Journal for Scientific Research & Development	2020	Vol. 8, Issue 4,	pp.443-448	UGC approved
11	“Multi Area Frequency and Tie Line Power Flow Control with TCPS”	International Research Journal of Engineering and Technology	2020	Vol.7, Issue.6	pp.1809-1814	UGC approved
12	“Design of Conventional Controller for Modified High Step-up DC-DC Converter Used for Solar PV Systems”	International Research Journal of Engineering and Technology (IRJET),	2020	Vol.7, issue.9,	pp.3833-3837	UGC approved
13	“Modeling and Design of PWM based Sliding Mode Controller for Active Clamp Forward Converter”	Journal of Electrical Engineering	2018	Volume 18, issue 1,	Article 21	Scopus Indexed
14	“An Improvement in Performance of Grid Connected PV System with High Step-up DC-DC Converters”	European Journal of Advances in Engineering and Technology	2018	Volume 5, Issue 7,	Page No.: 427-436	UGC approved
15	“Improvement in Performance Evaluation of Active Clamp Forward Converter with Fuzzy Logic Controller”	International Journal of Current Research	2017	Vol.9, Issue.3	pp.47336-47342	Google Scholar
16	“Mitigation of Harmonics with Intelligent Controllers Based Multi Converter UPQC”	International Journal of Research	2017	Volume 04 Issue 09		Google Scholar
17	“Evaluation of Various Digital Controllers for Forward Converter with Active Clamp”	International Journal of Electrical and Computer Engineering	2016	Vol.6, No.6	pp. 2846-2854	Scopus Indexed
18	“Design of Digital Current Mode Controller for Active Clamp Forward Converter”	European Journal of Advances in Engineering and Technology	2016	Volume 3, Issue. 5	pp.46-55	Google Scholar

19	“Root locus Based design of Digital Controller for Forward Converter with Active Clamp Circuit”	International Journal of Applied Engineering Research	2015	Vol. 10 No.1	pp.20-25.	Sco us Indexed
20	“Performance improvement of Distributed Energy Resources by using High step-up DC-DC converter and simplified multilevel inverter”	International Journal of Technology and Engineering Science [IJTES]	2015		pp: 3551- 3556	Goo e Scholar
21	“A Novel PV System Constructed with Five Level Inverter Using SPWM Technique”	International Journal for Technological Research in Engineering	2014	Volume 2, Issue 2		Goo e Scholar

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	“Evolution of various conventional controllers for High-switching Frequency Converters”	ICRAMAV-2013	Elsevier	2013
2	“Average Current mode controlled High Switching Frequency converter for Photo-voltaic System”	ICRAMAV-2013	Elsevier	2013
3	Performance Evaluation of Fast Charging DC-DC Converter for Electrical Vehicle with Root Locus based Digital Controller	Emerging Solutions for e-Mobility and Smart Grids (chapter 15), Springer Proceedings in Energy, https://doi.org/10.1007/978-981-16-0719-6_15	Springer	2020

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202241033426	“Efficient handling of M-health data using artificial intelligence and big data”	17/06/2022	Published
2	202341027529A	“Recognition of Ocular Disease from Fungus Images using Machine Learning Approach”	05/05/2023	Published

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

S.No.	Name of the event	Role	Dates
1	two day work shop on “Industrial Automation-PLC &SCADA” organized by Shaastra’15, IIT Madras in association with Innovians Technologies	coordinator	16 th and 17 th Sept, 2014.
2	three day training program on Simulation of Electrical systems using MI Power (p.1Ver.)	coordinator	Jan23 rd 2018- 25 th Jan, 2018
3	Three days workshop on “Simulation of Electrical systems using MiPower 9.1 version”	coordinator	23/01/2018 to 25/01/2018
4	one week FDP on Power quality Issues in Electrical Systems Connected to Smart Grid	coordinator	17/12/2018 to 21/12/2018
5	Guest Lecture on Research Methodology in Multi-Level Inverters	coordinator	30/07/2019
6	Student Solar Ambassador workshop on "Gandhi Global Solar Yatra "in Collaboration with IIT Bombay	coordinator	02-10-2019
7	“Webinar on How to be Job Ready”	coordinator	08-02-2020
8	Guest Lecture on “Assemblig of HexaCraft”	coordinator	29/02/2020
9	A National level Quiz on " Electical Vehicle Technology"	coordinator	16/06/2020 to 18/06/2020
10	Two day National level online seminar on " Quality Improvement	coordinator	28-06-2020 -29-06-2020

	via Accreditation and Ranking"		
11	Webinar on "Role of youth in Attaining g Atmanirbhar Bharat in Energy"	coordinator	2nd October 2020
12	One-week short term training program on "Applications of Soft Computing in Electrical Engineering"	coordinator	15th – 20th March 2021.
13	One Week Short Term Training Program on "Design, Implementation and Control of Electrical Systems using MATLAB"	coordinator	03-01-2023 to 07-01-2023
14	Two Days Workshop on "Research Report and Article Writing are using LaTeX Software "	coordinator	17-03-2023 to 18-03-2023
15	Three day National Level online workshop on "Outcome Based Education and Examination Reforms"	coordinator	03-08-2022 to 05-08-2022
16	A Seminar on "Technical Education – The Changing Landscape"	coordinator	27-07-2022

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

Sl. No.	Name of the Event	Duration		Organized By
		From	To	
1	Online Elementary FDP on "EV & Charging Infrastructure"	2021-7-26	2021-7-30	AICTE Training And Learning (ATAL) Academy
2	Five - Day Online FDP on "Recent Advances in Power Electronics and Power Systems"	10.11.2021	15.11.2021	Lakireddy Bali Reddy College Of Engineering
3	Four weeks FDP on "AI and Deep Learning"	01-07-2020	28-07-2020	APSSDC- Skill Development Center
4	One week Workshop on "Introduction to PLECS Tool for Power Electronics Applications"	02-07-2020	06-07-2020	VRSEC, Vijayawada
5	AICTE Sponsored Short Term Training Program on "Challenges in Electrical Vehicle Battery Charging & Grid Integration Issues"	03-08-2020	08-08-2020	RGM CET, Nandyal
6	AICTE-ISTE Approved Orientation/Refresher Program on " Industrial Automation and Control"	05-04-2021	10-04-2021	G. Pulla Reddy Engineering College, Kurnool
7	(TEQIP-III) sponsored Faculty Development Programme on " Power Electronic Applications to Renewable energy systems and Energy storage systems "	06-07-2020	10-07-2020	NIE, Mysuru

8	AICTE Sponsored STTP on "Simulation Tools for Electrical Engineering & its real time applications"	07-06-2021	12-06-2021	KHIT, Guntur
9	Six Day Online FDP on " Teaching and Learning of Power Converters and Control Techniques for Renewable Energy Systems"	08-03-2021	13-03-2021	NIT, Warangal
10	Five-Day online workshop on "Control Systems and Applications"	09-03-2021	13-03-2021	NIT,Sikkim
11	One Week FDP on "Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)"	13-07-2020	17-07-2020	GMRIT
12	AICTE Sponsored Short Term Training Program on "Automotive Technology for a Sustainable Future"	14-12-2020	19-06-2020	GRIET,Hyderabad
13	(TEQIP-III) sponsored Faculty Development Programme on " Electric Power Grid Moderation: Trends, Challenges and Opportunities "	20-07-2020	24-07-2020	NIE, Mysur
14	Three Day National Level Workshop on "NAAC Assessment & Accreditation: A step by step Processes"	27-05-2021	29-05-2021	CREC, Tirupati
15	Two day National level online seminar on " Quality Improvement via Accreditation and Ranking"	28-06-2020	29-06-2021	BEC,Bapatla
16	AICTE Sponsored online Short Term Training Programme on " Hybrid Energy Systems "	31-08-2020	05-09-2020	GCET,Hyderabad
17	AICTE Approved an One Week "Short term program on recent trends in Electrical Engineering"	16 th Sep, 2019	21 st Sep, 2019	SACET, Chirala
18	A Five days' Workshop on " Smart Techniques in Power Systems"	15 th Mar,2019	19 th Mar, 2019	VNIT, Nagpur
19	One day FDP on " Methodologies for Generating revenue through Research with Patents & IPR"	30 th Jan,2019	-	BEC,Bapatla
20	A Three day faculty development programme on "Feedback Controllers For Renewable Energy Systems In Micro Grid"	27 th Sep, 2018	29 th Sep, 2018	BEC,Bapatla
21	A One Week Faculty Development Program on "Power Quality Analysis and Improvement Techniques"	18 th June, 2018	23 rd June, 2018	NIT Warangal
22	A one week Short Term Course on "High Voltage Gain Soft-switching advanced current-fed	18 th Dec, 2017	23 rd Dec, 2017	OU, Hyderabad

	Technologies for Micro grid and Electric Transportation”			
23	A Three day National Level Faculty Development Program on “ Applications of MATLAB/SIMULINK to Electrical Systems”	7 th Dec,2017	9 th Dec, 2017	BEC,Bapatla
24	A Three day National workshop on “Advancements in Green Energy and Automation Control of Electrical Power”	16 th Oct, 2014.	18 th Oct, 2014.	Vignan’s University, Guntur
25	A one week QIP Short term course on “Embedded Control Systems”.	12 th May, 2014	16 th May, 2014	IIT Bombay
26	A one day orientation Program on “MATLAB, Simulink & Related Tool Boxes for Engineering Education”	26 th April, 2014.	26 th April, 2014.	ANU, Guntur
27	A one week Course Work on “Research Methodology”	16 th Dec, 2013	21 th Dec, 2013	JNTU Hyderabad
28	A one week QIP Short term course on “Dynamics and Control in State Space”	06 th May, 2013.	10 th May, 2013.	IIT Bombay
29	A Two Days short term program on “Short-term training program on Solar PV Electric Conversion Systems (SPVECS) 2013”	18 th Jan, 2013.	19 th Jan, 2013.	NIT Trichy
30	A Two Days work shop on “Real Time Control Systems”	20 th July 2012	21 st July 2012	JNTU Hyderabad
31	A two day National Workshop on “Renewable Energy Sources & Their Interconnection with Power Grid”	12 th Nov, 2011	13 th Nov, 2011	ANU Guntur
32	A one day National Work shop on “Solar Photovoltaic Energy”	10 th Nov, 2011	10 th Nov, 2011	PVPSIT, Vijayawada
33	A two day work shop on “Low Power Embedded system design using MSP-430”	19 th May, 2010.	20 th May, 2010.	COEP Pune

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Certificate of Excellence for peer reviewing and in recognition Of an outstanding	Asian Journal of Pure and Applied Mathematics	05-07-2022.

	contribution to the Journal		
2	Certificate of Excellence for peer reviewing and in recognition Of an outstanding contribution to the Journal	Asian Journal of Research in Computer Science	20-08-2022.
3	Got Certificate of Excellence in Reviewing for reviewing of Research articles	Journal of Engineering Research and Reports	2021
4	Got Certificate of Excellence in Reviewing for reviewing of Research articles	Asian Journal of Research in Computer Science	2021
5	Acted as Keynote Speaker of the International Conference on Research & Developments in Engineering, Pharmacy & Management	4thICRDEPM- 2021	2021
6	Acted as Session Chair for the International Conference on Recent Innovations in Research & Developments	4thICRIRD- 2020	2020
7	Got Best paper award for the paper entitled " Small Signal modeling of Active Clamp Full-wave Forward Converter with Average Current Mode Controller "	IEEE ICRDPET-2013	2013
8	Got good Ranks in E-CET Exam in the year 2004 and in GATE Exam in the year 2007 .	AP State	2007
9	Got First prize in national level General Quiz Conducted	VIGNAN'S ENGINEERING COLLEGE, Guntur	2006

Details of project proposals submitted/sanctioned/completed

S.No	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
.	Development of Electronic Design and Prototype Fabrication Laboratory	AICTE- MODROBS	Submitted	1850940/ -	Date of Application: 20-01-2021

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed: 24	Ongoing: 01
2	PG	Completed: 04	Ongoing: 00
3	PhD	Completed: 00	Ongoing: 03

Administrative experience

S.No.	Role	Duration (From – to)
1	<ul style="list-style-type: none"> ◆ Department Coordinator for IQAC & NIRF Committee. ◆ Department Coordinator for ISTE Faculty Chapter. ◆ Member in Department Academic Committee. ◆ Worked as Time-Table In charge for two Years in Department of EEE. ◆ Acting as reviewer for various refereed journals. ◆ Acting as Lab In charge for Electrical Measurements and workshop lab. ◆ Working for Department Level Admissions work. 	12-07-2010 to Till Date

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.co.in/citations?user=QiFIDM8AAAAJ&hl=en
SCOPUS	56422264800
Web of Science	https://orcid.org/0000-0003-0960-8541
Vidwan ID	323962

Any other relevant information

J. Ravindra

(Dr Ravindra Janga)

(Date:22-09-2023)