

BIO DATA

1. Name: Dr. Darapureddi V Kumar

2. Father Name: Dr. D.V.G.S.Naidu

3. Date of Birth: 10-08-1974

4. Category: BC-D, Koppala Velama

5. Permanent Address: Dr.D.Vijaya Kumar
S/O Dr.D.V.G.S.Naidu,
Kotturu, Garugubilli manadal,
Parvathipuram Manyam District
Andhrapradesh State

6. Mailing Address: Dr. D.Vijaya Kumar
Professor in EEE Department
Aditya Institute of Technology and Management
K.Kotturu, Tekkali, Srikakulam (Dist) –532 201.
Andhra Pradesh (State), India
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7. Educational Qualifications:

S. No	Degree	Institution	Board/University	Year of Passing	Specialization
1.	S.S.C	RCM St. Johnes High School, Parvathipuram, Vizianagaram (Dt)	Board of Secondary Education, Hyderabad	1989	--
2.	Inter	Govt. Junior College, Parvathipuram, Vizianagaram (Dt)	Board of Intermediate Education, Hyderabad	1991	Mathematics, Physics, Chemistry
3.	B.E	College of Engineering GITAM, Visakhapatnam	Andhra University, Visakhapatnam	1997	Electrical and Electronics Engineering
4.	M.E	A.U. College of Engineering , Visakhapatnam	Andhra University, Visakhapatnam	2000	Power Systems
5.	Ph. D	A.U. College of Engineering , Visakhapatnam	Andhra University, Visakhapatnam	2010	Electrical and Electronics Engineering

8. Details of employment (past & present): 25 Years

Sl. No	Name of the Institution	Scale of Pay/ Total Salary	Post held	Duration
1.	SISTAM College of Engineering, Srikakulam	8000-275-13000 Total: 13027	Assistant Professor	June 2000 to Sep. 2005
2.	SISTAM College of Engineering, Srikakulam	12000-420-18300 Total: 19200	Associate Professor	Oct. 2005 to May 2008
3.	VITAM College of Engineering, Visakhapatnam	12000-420-18300 Total: 26650	Associate Professor	May 2008 to June 2009
4.	PRIME College of Engineering, Vizianagaram	18000-420-24300 Total: 35000	Associate Professor	June 2009 to Jan. 2011
5.	Institute of Technology, GITAM university, Visakhapatnam	37400-67000 AGP: 9500 Total: 77385	Associate Professor	Feb 2011 to August 2011
6.	Aditya Institute of Technology and Management , Tekkali, Srikakulam (Dist)	37400-67000 AGP:10000 Total: 174500	Professor (Ratified post, Ratified by JNTU Kakinada	Sept 2011 to till date

9. Administrative Experience:

Sl. No	Name and Address of Institution	Post held	Duration
1.	College of Engineering SISTAM, Srikakulam	HOD-EEE	Dec 2005 to May 2008
2.	College of Engineering SISTAM, Srikakulam	In-Charge Principal	Jun 2006 (1week)
3.	Institute of Technology, GITAM university, Visakhapatnam	1.Department Committee (DC) – Member 2. Board of Studies –Member Centre of Innovation and entrepreneurship- Member	Feb 2011 to August 2011
4.	College of Engineering Chaitanya, Pydha, Gayatri, Visakhapatnam	Route officer EAMCET-2008	May 2008
5.	Bullayya College of Engineering for women, Visakhapatnam	Route officer & Observer ECET-2012	May 2012
6.	Bullayya college of Engineering for women, Visakhapatnam	Route officer and observer ECET-2014	May 2014
7.	Andhra University, Visakhapatnam	Enforcement Officer EAMCET-2016	May 2016
8.	AITAM College of Engineering , Tekkali	1.HOD-EEE 2. Anti Ragging Committee - Member 3.Diciplinary Committee – Member 4. IIC Member	09 th September 2011 to 30 th September 2021, 01/07/2024 to till date
		5. Board of Studies –Chairman (EEE Dept.)	09 th September 2011 to 30 th September 2021, 01/07/2024 to till date
		6. Academic council committee- Member	01 st June 2013 to till Date
		7. Dean-Academics	01 st October 2021 to 30 th June 2024

10. Titles of Thesis:

S. No	Degree	Title of thesis	Name of the Institution	Name of the Guide
1.	M.E.	Static voltage collapse studies in power systems	Andhra University, Visakhapatnam	Dr.V.Purna Chandra Rao Professor, Electrical Department, Andhra University
2.	Ph. D	New Routh Approximants of Linear Interval Systems Retaining Impulse Energy-Critical Study and some New Aspects	Andhra University, Visakhapatnam	Dr.G.V.K.R. Sastry Professor, Electrical Department, Andhra University

11. No. of Workshop/ Training Programmes/ Summer/ Winter Schools Attended:

Sl. No	Name of the Course	Place	Title	Month & Year	National or International
1	A 3 weeks refresh course	JNTU, Hyderabad	Simulation tools for Electrical Engineering Applications	Feb-2003	National
2	A 1 Week training program	GVP college of Engineering, Visakhapatnam	Modelling of power system components	Dec-2003	National
3	A 3 weeks refresh course	JNTU, Hyderabad	Generation, Measurement & Testing in High Voltage Engg.	Oct-2004	National
4	A 2 day national workshop	Andhra University, Visakhapatnam	Emerging Trends in power sector	Jan-2005	National
5	A 2 day national workshop	JNTU, Kakinada	Real time power systems	Feb-2005	National
6	A 3 day short term course	Andhra University, Visakhapatnam	Advanced Theory of Control systems	Mar-2007	National
7	A 3 day national workshop	Shri Vishnu Engg. College For Women, Bhimavaram	Recent Advancements in Modeling and Simulation of Control systems	July-2007	National
8	A 2 day national workshop	AITAM College of Engineering , Tekkali	Advances in Electrical Engineering	Sep-2008	National
9	A 1 day national level workshop	MVGR College of Engg., Vizianagaram	Recent Trends in Electrical Engineering	Oct-2008	National
10	2 Weeks Faculty Development Programme	AITAM College of Engineering , Tekkali	Soft Computing Application to Power System and Control MAT Lab	April-2012	National
11	1 day workshop	AITAM College of Engineering , Tekkali	Outcome based education	19 Jan-2013	National
12	1day Seminar	Visakhapatnam (Mathworks)	MAT LAB & Simulink for Engineering Education	07 th Feb,2013	National
13	1 Week Faculty Development Programme	IIM Indore	Management Capacity Enhancement Programme	Jan 2014	National
14	02 days Workshop	AITAM College of Engineering ,	09 th ISTE A.P. Section Annual Convention and Awards	Nov2014	National

		Tekkali	Function-2014		
15	1 day Workshop	AITAM College of Engineering , Tekkali	Out Come Based Education	Dec2014	National
16	1 day Workshop	AITAM College of Engineering , Tekkali (in Association with IUCEE)	Out Come Based Education	March2015	National
17	1 Week Faculty Development Programme	AITAM College of Engineering , Tekkali	Effective Solutions to Smart-Grid	April2015	National
18	1 Week Continuing Education Programme	Andhra University, Visakhapatnam	Contemporary Applications of Control Engineering	April2015	National
19	1 Week Workshop	AITAM College of Engineering , Tekkali	Reviving Education by Implementing Active & Guided Inquiry Experiences in Science, Technology, Engineering, Math & Management	August2015	International
20	3 days training program	AITAM College of Engineering , Tekkali	Pedagogy and Management Capacity Enhancement Program for Teaching Staff	23 rd -25 th June, 2016	National
21	1 day Awareness workshop	Engineering staff college of India	Intellectual Property Rights(IPR) in E&IT Sector	5 th July,2016	National
22	1 week Faculty Development Programme	AITAM College of Engineering , Tekkali	Optimization Techniques for Electrical Engineering Applications	22 nd -27 th Sept,2016	National
23	1 week Faculty Development Program	Teaching Learning Center, IIT Patna	Component and applications of IOT	24 th to 28 th September, 2016	National
24	1 week Faculty Development Programme	NIT, Warangal and AITAM, Tekkali	Internet of things and data analytics	12 th to 17 th Nov 2018	National
25	02 Day Workshop	AITAM, Tekkali	Outcome based Education	13 th to 14 th July, 2019	National
26	1 week Faculty Development Programme	Muffakham Jarh college of Engineering & technology Hyderabad	Machine Health Monitoring & Evaluation using IOT through ICT	25 th to 29 th March, 2019	National
27	1 week Faculty Development Programme	AITAM, Tekkali	Labview in Engineering & Academic Research	27 th Jan to 01 st Feb 2020	National
28	1 week Faculty Development Programme (Online)	CMR college of Engineering & technology Hyderabad	Research opportunities in power Engineering	22 nd – 27 th April, 2020	National
29	1 week Faculty Development Programme (Online)	Rajarambapu Institute of technology Islampur, Maharastra	Design, Simulation and development of Unmanned Aerial vehicles	30 th April to 04 th May 2020	National

30	1 week Faculty Development Programme (Online)	SJB institute of technology, Bengaluru	Labview	4 th to 8 th May, 2020	National
31	2 week Faculty Development Programme (Online)	Government college of Engineering, Karad	Research opportunities in Electrical Engineering (TEQIP-III)	7 th to 16 th May, 2020	National
32	2 week Faculty Development Programme (Online)	Andhra pradesh state skill Development Corporation, Andhra pradesh	Internet of things (IOT)	18 th to 30 th May, 2020	National
33	1 week Faculty Development Programme (Online)	Chebrolu Engineering College, Guntur	Universal Human values and professional Ethics	13 th to 17 th May, 2020	National
34	1 week Faculty Development Programme (Online)	M.S. Ramaiah Institute of technology, Bengaluru	NBA and NAAC Accreditation Process	04 th to 08 th June, 2020	National
35	2 week Faculty Development Programme (Online)	NIT, Kurukshetra	Green Energy technologies for sustainable Development (TEQIP-III)	11 th – 20 th June, 2020	National
36	1 week Faculty Development Programme (Online)	MNIT, Bhopal	Future trends in Green Technologies	22 nd to 26 th June, 2020	National
37	1 week Faculty Development Programme (Online)	Indira Gandhi Institute of technology, Sarang	Renewable Power Generation, Control And Grid Integration (TEQIP-III)	10 th to 14 th August, 2020	National
38	1 week Faculty Development Programme (Online)	Government college of Engineering, Kalahandi Odisha	Recent Advances in Electronics and communication Engineering	17 th – 21 st August, 2020	National
39	1 week Faculty Development Programme (Online)	Bapatla Engineering College,Bapatla	IOT And Smart Device Application In Green Technology And Electric Vehicles	24 th to 28 th Aug, 2020	National
40	1 week Faculty Development Programme (Online)	Dr. N.G.P INSTITUTE OF TECHNOLOGY, COIMBATORE	Machine Learning & Internet Of Things For Industrial Applications	28 th Sep to 04 th Oct, 2020	National
41	01 Day Webinar (Online)	AITAM, TEKKALI	Challenges In Good Learning And Assessment - Post Covid 19	5 th September 2020	National
42	1 week Faculty Development Programme (Online)	Rajasthan technical university, Kota	Nano Technology Based Green Energy Solution For Solar Cells	10 th to 14 th September, 2020	National
43	01 Day Webinar (Online)	AITAM, TEKKALI	National Education Policy 2020	15 th September, 2020	National
44	1 week Faculty Development Programme (Online)	Indian society technical Education (Telengana Section)	Outcome base Education and Accreditation	05 th – 09 th October 2020	National
45	1 week Faculty Development Programme (Online)	Ramachandra College of Engineering, Eluru	An Integrative approach to Impact ethics and Moral values in Engineering Education	02 nd to 06 th November, 2020	National
46	2 week Faculty Development	Sasi institute of technology and	Advanced power Electronic Applications in Power system	19 th to 31 st October,	National

	Programme (Online)	engineering tadepalligudem		2020	
47	1 week Faculty Development Programme (Online)	IIT Varanasi	Transition towards Electric Vehicles and their charging Ecosystem in India	11 th to 16 th Jan, 2021	National
48	2 week Faculty Development Programme (Online)	BV Raju Institute of technology, Medak	Electric Vehicle (EV) Components, Technologies, Challenges and future Development	18 th to 30 th January, 2021	National
49	1 week Faculty Development Programme (Online)	IIT Varanasi	Challenges, opportunities and Emerging Trend in the Field of High voltage	01 st – 06 th February 2021	National
50	2 week Faculty Development Programme (Online)	Bapatla Engineering College, bapatla	Emerging technologies in Electric Vehicles	02 nd to 14 th August, 2021	National
51	One week FDP	NITTR, Chandigarh	Research Scope in Electric Vehicles	5 th Dec – 9 th Dec 2022	National
52	One week FDP	NITTR, Chandigarh	Effective Curriculum Implementation	12 th - 16 th December 2022	National
53	One week FDP	NITTR, Chandigarh	ANSYS-EM for Electrical Engineering Application	17 th – 21 st July 2023	National
54	One week FDP	NITTR, Chandigarh	Big Data Analytics in Smart Grid	12 th – 16 th Feb 2024	National
55	One week FDP	P.R. Pote patil college of Engg and Management, Amaravathi	Research proposal writing and AI tools in education and research	06 th -11 th May 2024	National
56	One week FDP	NITTR, Chandigarh	Employability Skills for Industry 4.0	29 th July-02 nd Aug 2024	National
57	One week FDP	NITTR, Chandigarh	Smart Grid and Renewable Energy Sources	23 rd -27 th Sep 2024	National
58	One week FDP	NITTR, Chandigarh	Outcome based Education and Accreditation Process	25 th -29 th Nov 2024	National
59	One week FDP	NITTR, Chandigarh	Entrepreneurship development and industrial coordination department	29 th July-2 nd Aug 2024	National

12. No. of Workshop/ Training Programmes/ Summer/ Winter Schools/ Conferences Organized

Sl. No	Name of the Course	Place	Title	Month & Year	Convener / Co-Convener	National or International
1	A 2dayStudents symposium	AITAM - Tekkali	AMPERE-2K12	12 th to 13 th March, 2012	Convener	National
2.	A 2dayStudents symposium	AITAM - Tekkali	ASPIRE-2K12	21 st to 22 nd ,Septem ber 2012	Co-Convener	National

3.	A 2 Weeks Faculty Development Programme	AITAM - Tekkali	Soft Computing Application to Power System and Control MAT LAB	16 th to 29 th , April 2012	Co-Convener	National
4.	National Conference	AITAM - Tekkali	Recent Developments In Electrical Engineering (NCRDEE-2013)	15 th to 16 th , March 2013	Convener	National
5.	Short Term Training Programme	AITAM - Tekkali	Soft Computing Applications to Power Systems (SOFTCAPS)	26 th to 28 th December 2013	Convener	National
6.	A 2dayStudents symposium	AITAM - Tekkali	ASPIRE-2K15	26 th to 27 th , February 2015	Convener	National
7.	1 Week Faculty Development Programme	AITAM - Tekkali	Effective Solutions to Smart – Grid	04 th to 08 th , April 2015	Convener	National
8.	Two days National conference	AITAM - Tekkali	Recent Trends in Power Electronics and Drives	22 nd - 23 rd , January 2016	Convener	National (DST Sponsored)
9.	1 Week Faculty Development Programme	AITAM - Tekkali	Optimization Techniques for Electrical Engineering Applications	22 nd -27 th September 2016	Convener	National
10.	1 Week Faculty Development Programme	AITAM - Tekkali	Labview in Engineering & Academic Research	27 th January to 01 st February 2020	Convener	National
11.	International Conference, Springer	AITAM - Tekkali	Intelligent Computing in control and communication	7 th to 8 th August, 2020	Convener	National
12.	ATAL FDP	AITAM - Tekkali	Electric Vehicles	16 th to 20 th November 2020	Convener	National (AICTE Sponsored)
13.	One week FDP	NITTR, Chandigarh	Effective Curriculum Implementation	12 th – 16 th Dec 2022	National	National
14.	One week FDP	NITTR, Chandigarh	Outcome based Education and Accreditation Process	25 th -29 th Nov 2024	National	One week FDP

13. Resource Person: 04

Sl. No	Name and Address of Institution	Course	Duration	National/ International
1.	College of Engineering Gokul, Bobbili	Electrical Distribution Systems	August 2004 (3Days)	National
2.	V.R. Siddhardha College of Engineering Vijayawada	Advance Control Systems (Conducted by JNTU Kakinada & A.P. Higher Education Hyderabad)	January 2012 (24-01-2012)	National

3.	Gandhi Institute of Technology, Gunupur	International Conference on Communication, Control and Instrumentation	25 th to 27 th October, 2013	International
4.	Aditya Institute of Technology and Management, Tekkali	International Conference on Engineering Science, technology and management	29 th and 30 th November, 2018	International

14. As a Reviewer/Expert member/ Judge:

S. No	Position	Name of the conference / journal	Name of the Institution
1.	Paper Reviewer	International conference on Computational Intelligence in Data Mining – ICCIDM2015	VSSUT Burla, Orissa
2.	Judge	National Level Technical and Management Symposium Dates: 26 th March, 2015	Sri Sivani College of Engineering, Srikakulam
3.	Review Board Member	International Journal of Research in Engineering and Technology e-ISSN 2319-1163	Pune
4.	Paper Reviewer	International conference on smart electric grids- 2014	K L University, Guntur, Andhra Pradesh
5.	Paper Reviewer	Intelligent Control And Automation Journal	Scientific Research Publishing
6.	Paper Reviewer	International conference on Computational Intelligence in Data Mining – ICCIDM2014	VSSUT Burla, Orissa
7.	Expert member	e-resources content review meeting sub: Power system operation and control, dates: 22 nd to 23 rd June, 2013	JNTU, Kakinada
8.	Judge	National level student technical symposium (VDYOTHA-2K12) Dates: 06 th January 2012	Prajna Institute of Technology and Management, Palasa
9.	Judge	National level student technical symposium (EGEIRO-2K12) Dates: 06 th March 2012	Thandra Paparaya Institute of Science & Technology, Bobbili
10.	Judge	National level student technical symposium Dates: 20 th November 2011	National Institute of Science & Technology, Orissa

15. External Funding

S.No	Year of sanction	Title of the sponsored project	Name of the funding agency	Grant Amount in Rupees	PI / Co-PI
1.	2013	Recent Developments In Electrical Engineering (NCRDEE-2013)	TEQIP-II	1, 50, 000	PI
2.	2013	Soft Computing Applications to Power Systems (SOFTCAPS)	TEQIP-II	1, 60, 000	PI

3.	2015	Effective Solution to Smart Grid	TEQIP-II	2, 20, 000	PI
4.	2016	Optimization techniques for electrical engineering applications	TEQIP-II	2,60,000	PI
5.	2016	Recent Trends in Power Electronics and Drives	DST	1,00,000	PI
6.	2020	ATAL FDP	AICTE	93,000	PI
7.	2024	Auto code generation for Embeded control of high frequency Si-C Based power Electronic Drives in Permanent magnet Motors	DRDO	30,66,900	CO-PI

16. Research Experience :

Guiding M.Tech Projects: 26 (Completed), Ongoing: 01

S. No	Name of the candidate, Register number	Thesis Title	Date of Awarded	Name of the Institution
1.	Suresh kumar sahu 10A51D5413	Simulation of UPQC-ML using Hysteresis control and comparing it with series and shunt active power filter	07/06/2013	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt.
2	B.Ramya 10A51D5401	Optimal capacitor placement and sizing in lower Distribution systems for harmonic reduction and improving voltage profile and using particle swarm optimization	21/03/2013	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt.
3.	D.Vanajakshi 10A51D5411	Speed and Torque control of BLDC motor with PID controller	21/03/2013	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt.
4.	G.Sravanthi 11A51D5403	24 pulse AC-DC Converter for improved power quality	13/07/2014	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt.
5.	N.Sowjanya 11A51D5411	Distributed renewable resources constructed with multilevel converter using SVM technique	13/07/2014	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt.
6.	S.K.Baji 11A51D5414	Three Phase single stage Boost inverter with coupled inductor	29/12/2013	Aditya Institute of Technology and Management,

		for renewable energy sources		Tekkali, Srikakulam Dt.
7.	M.Prasanthi 13A51D5413	Control strategy for faculty current interruption in a radial distribution line using dynamic voltage restorer	12/09/2015	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
8.	V.Gowthami 12A51D5421	Analysis and implementation of PI and fuzzy controllers for MPPT based PV cell for grid connection	12/02/2016	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
9.	T.Sridevi 11A51D5415	Power Quality improvement in a PV Distribution system by using D-STATCOM	03/04/2015	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
10.	M.Satish Kumar 12A51D5406	A novel single input multi-output converter fed induction machine drive for industrial application	30/12/2014	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
11.	D.Byragi 13A51D5418	A Novel high efficiency high step-up interleaved converted with voltage multiplier circuit for PV system	27/12/2015	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
12.	D.Sagar Kumar 12A51D5414	A Single-phase voltage-controlled grid-connected photovoltaic system with power quality conditioner functionality	12/02/2016	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
13.	K.Prameela 12A51D5405	Z-Source inverter based dynamic voltage restorer for the mitigation of voltage sag/swell	12/02/2016	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
14.	D.Dhananjayanaidu 13A51D5403	A new simplified asymmetrical multilevel inverter topology with fundamental switching control	05/08/2016	Aditya Institute of Technology and Management, Tekkali, Srikakulam Dt
15.	J. Vijayachandra 14A51D5405	Modeling and Analysis of a Micro grid with Solar and Wind Energy Systems	09/01/2017	Aditya Institute of Technology and Management
16.	K. Meghana 14A51D5406	Control of PMSM using Neuro-Fuzzy Based SVPWM Technique	09/01/2017	Aditya Institute of Technology and Management
17.	B.Vineel 14A51D5402	Enhancing Power Quality to Sensitive Loads with Microgrid Using Fuzzy Logic Controller	09/01/2017	Aditya Institute of Technology and Management

18.	N.Kruparani 14A51D5413	Maximum Power Point Tracking for Photovoltaic System by Incremental Conductance Method Using Boost and Buck-Boost Converter	20/07/2017	Aditya Institute of Technology and Management
19.	P.Eswara Rao 12A51D5410	Harmonics Mitigation By Using Fuzzy Based D-Statcom in Distribution System	20/07/2017	Aditya Institute of Technology and Management
20.	S. Sireesha 15A51D5412	Fuzzy based unified power Flow controller system for reduction of harmonics & line losses	18/12/2017	Aditya Institute of Technology and Management
21.	Y. LavanyaKumari 15A51D5417	Fault current reduction in distribution system using fuzzy based active superconducting fault current limiter	18/12/2017	Aditya Institute of Technology and Management
22.	S. kinnera 16A51D4302	Optimal placement of Distributed generation in radial distribution system using Dragonfly Algorithm	11/01/2019	Aditya Institute of Technology and Management
23.	T. BhargavTeja 17A51D4302	Hybrid Fuzzy PID based Pitch Angle Controller for Wind Turbine	20/10/2021	Aditya Institute of Technology and Management
24.	Reddi Ramakrishna Saikumar 17A51D4301	Design and simulation of EV battery charger based on renewable energy source with fuzzy logic controller	21/09/2022	Aditya Institute of Technology and Management
25.	P. Srinuvasa Rao 20A51D5203	Modelling and Simulation of Grid connected PV system	16/03/2023	Aditya Institute of Technology and Management
26.	Pedada Vamsi Krishna 22A51D5209	Design and Construction of a High-Frequency Transformer of a Power Inverter	28/05/2025	Aditya Institute of Technology and Management

17. Guiding Ph.D Students: Guided: 05,
Submitted : 01,
Guiding: 06

S. No	Name of the candidate, Register number	Thesis Title	Name of the Institution	Status of the Thesis	Supervisor/ Co Supervisor
1.	K. Kusal Kumar JJT/2K9/Engg./reg/394	Power enhancement by using shunt active filter with control strategies under grid Distortions	Department of EEE, Shri Jagadish prasad Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan	Awarded on 2020	Supervisor
2.	Srinivasa Acharya/reg / 1634110015	Economic-Environmental Centered real power scheduling of renewable energy sources integrated power system	Department of EEE, Annamalai University, Chidambaram, Tamilnadu	Awarded on 2022	Co-Supervisor

3.	K. Swetha /reg/ 15022P0216	Self Organized fuzzy controller as automatic generation controller and virtual inertia controller	Department of EEE, JNTUGV, Vizianagaram	Awarded on 18.12.2024	Supervisor
4.	Swetha Monica Indukuri/reg /202170006 7	A Novel Intelligent Techniques Integration of Grid-Connected PV System For Power Quality Improvement	Department of EEE, Nirwan University, Jaipur	Awarded on 29.01.2025	Co-Supervisor
5.	Nallam Vani Annapurna Bhavani/reg /202170002 2	Design And Implementation of Renewable Hybrid Power Generation System With Novel Energy Management Strategy and Advanced Multi Level Converters	Department of EEE, Nirwan University, Jaipur	Awarded on 29.01.2025	Co-Supervisor
6.	Anuku Arjuna Rao	On some new aspects in Electrical load forecasting adopting deep learning techniques	Department of EEE, Andhra University, Visakhapatnam	Submitted on March 2025	Co-Supervisor
7.	Neyyila Raju/reg/19 EE027	Performance evaluation and analysis of power systems with PSS and FACTS controllers	Department of EEE, GIET University, Gunupur, Odisha	On going	Co-Supervisor
8.	M. Sai ganesh/reg/ 19022P0250	Renewable energy sources	Department of EEE, JNTUGV, Vizianagaram	On going	Supervisor
9.	K. Srinivasa Rao/reg/ 21022P0230	Power quality disturbances detection in micro grid	Department of EEE, JNTUK, Kakinada	On going	Supervisor
10.	M. Chandrasek hara Rao/reg	Power systems	Andhra University, Transdisciplinary Research hub	On going	Supervisor
11.	N. Sowjanya/A PRCET- 2019/	Power Systems	Andhra University, Transdisciplinary Research hub	On going	Supervisor
12.	V.V. Appala Naidu/APR CET-2021/	Power Systems	Andhra University, Transdisciplinary Research hub	On going	Supervisor

18. List of publications:

Published Papers →114

International Journal Publications→78

SCIE: 15

Q1: 04

SCOPUS: 07

Peer Reviewed: 52

National Journal Publications→02

International Conferences Papers →18

National Conferences Papers →16

International Journal Publications :

SCI/SCOPUS INDEXED JOURNALS:

1. N. Vasu, **Dr. D. Vijayakumar**, "Power system Real time Monitoring and Control", journal of Advanced Research in Dynamical and control Systems, Vol.09 , special issue-14, 2017, ISSN: 1943-023X, PP: 1457-1467.
Impact Factor: 0.129
(Scopus)
2. **Dr. D. Vijayakumar**, B.Manmadha Kumar "Design and analysis of BFOA optimized PID controller with derivative filter for frequency regulation in distributed generator system", International journal of automation and control, Vol 12, Number 02, March 2018. ISSN: 1740-7524, PP: 291-323.
Impact Factor: 1.3
(ESCI)
3. B. Sriram Vivek, K. Swetha, **Dr. D. Vijaya Kumar**, "Implementation of Fuzzy Logic Controller in Three Area Multi Source LFC System", January 2018, International Journal of Engineering & Technology Journal, ISSN: 2227-524X, Vol.7 (3.31), August 2018, PP: 55-58.
Impact Factor: 8.4
(Scopus)
4. Dr. B. Srinivasa Rao, Dr. K. Kiran Kumar, **Dr. D. Vijayakumar** "Design and Simulation of Hybrid system using Cuckoo MPPT technique", International journal of Engineering and advanced technology (IJEAT), Vol.08, issue 06, August 2019, PP: 3078-3086.
Impact Factor: 1.0
(Scopus)
5. **Dr. D. Vijayakumar**, N. Vasu "Design of Fuzzy PID with filter controller for AGC of Thermal-Hydro Units" International journal of control and Automation , Vol.13, November. 02 2020 ISSN: 2005-4297, PP: 665-676.
Impact Factor:
(Scopus)
6. Dr. K.V.S. RAMACHANDRA Murthy, **Dr. D. Vijayakumar** "Load flow solution of Distribution systems- A Bibliometric Survey", Library Philosophy and Practice (e-Journal), July-2021, PP: 3078-3086.
Impact Factor: 0.64
(Scopus)

7. B. Srinivasa Rao, **Dr. D. Vijaya Kumar**, K. Kiran Kumar, “ power quality improvement using cuckoo search based multi-level facts controller”, Journal of Engineering Research, October 2021, Vol.10 No. (4A), ISSN: 2307-1877, pp. 252-261.

Impact Factor: 1
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7. Srinivasa Acharya, Dr. S. Ganesan, **Dr. D. Vijayakumar**, Dr. S. Subramanian "Optimum Load Dispatch using Multi-Verse Optimization", National conference on Research & Innovations in Engineering Sciences & Management at GIET Engineering college, Rajahmundry on 8th - 9th March 2019.
8. Srinivasa Acharya, Dr. S. Ganesan, **Dr. D. Vijayakumar**, Dr. S. Subramanian "Performance of Metaheuristic methods for combined economic and emission dispatch", National conference on Research & Innovations in Engineering Sciences & Management at GIET Engineering college, Rajahmundry on 8th - 9th March 2019.
9. Srinivasa Acharya, Dr. S. Ganesan, **Dr. D. Vijayakumar**, Dr. S. Subramanian "A new Multi verse optimization Algorithm for solving Combined Economic Emission Dispatch Problems", National conference on Emerging Technologies in Electrical System (ETES-2019) at Government Engineering College, Salem on 4th April 2019.
10. Chandra Sekhara Rao Menda, **Dr. D. Vijayakumar**, "Optimal Interconnection of connecting weights of an Artificial Neural Network using Simple Particle swarm optimization Technique", National conference on Design thinking Transdisciplinary Challenges and opportunities at Andhra University, Visakhapatnam on 7th and 8th July 2023, ISBN: 978-93-5915-224-0.

11. N. Sowjanya, Dr. **D. Vijayakumar**, “New Aspects in Reduction of Discrete Time SISO Interval Systems Retaining Impulse Energy”, National conference on Design thinking Transdisciplinary Challenges and opportunities at Andhra University, Visakhapatnam on 7th and 8th July 2023, ISBN: 978-93-5915-224-0.
12. Manmadha Kumar B, Tulasichandra Sekhar G, Rabindra Kumar Sahu, **Dr. D. Vijayakumar**, “Design and Analysis of FA optimized PID controller for Load Frequency Control Problem”, National conference on Recent Trends in Power Electronics & Drives at Aditya Institute of Technology and Management, Tekkali on 23rd- 26th January 2016.
13. J.Vijayachandra,**Dr. D. Vijayakumar**, B.Trinatha, “Simulation of Multi-Output DC-DC Resonant Converters Based on Switched Resonant Converters”, National conference on Recent Trends in Power Electronics & Drives at Aditya Institute of Technology and Management, Tekkali on 23rd- 26th January 2016.
14. K Meghana, **Dr. D. Vijayakumar**, I.Ramesh, “Multilevel Converters for Large Electric Drives by Cascading a Flying Capacitor Inverter and an H-Bridge”, National conference on Recent Trends in Power Electronics & Drives at Aditya Institute of Technology and Management, Tekkali on 23rd- 26th January 2016.
15. B.Seshasai, Jagan Mohana Rao Ch, Manmadha Kumar B, **Dr. D. Vijayakumar**, “Fuzzy Based Speed Control of a Separately Excited DC Motor”, National conference on Recent Trends in Power Electronics & Drives at Aditya Institute of Technology and Management, Tekkali on 23rd- 26th January 2016.
16. G. Ramarao, I. Ramesh, **Dr. D. Vijayakumar**, “Design And Hardware Implementation Of Multifunctional Relay For Equipment Protection”, National conference on applications of evolutionary algorithms in power systems at Aditya Institute of Technology and Management, Tekkali on 28th - 29th April 2017.

Patents published:

1. National Patent published on “ ITV-Self balancing vehicle intelligent self balancing two wheel vehicle”, in the year of 2020 (App no: 202041014768 A).
2. National Patent published on “ vehicle to grid (V2G) for EV charging Energy management system”, in the year of 2021 (App no: 202141051391 A).
3. National Patent published on “ Optimized integrated renewable energy sources for improving power quality with power electronic controllers”, in the year of 2023.
4. National Patent published on “ AI integrated predictive inventory management system for manufacturing supply chains”, in the year of 2023 (App no: 202341076524 A).

Patents Granted:

1. International Patent Granted on “AI and ML based cyber security Device” in the year of February 2024 (Design number: 6344601)
2. International Patent Granted on “E vehicle based on solar energy” in the year of February 2024 (Design number: 6346289)
3. International Patent Granted on “ Computer Vision drone for Construction Site Management” in the year of October 2024 (Design number: 6400732)
4. International Patent Granted on “Device For Monitoring Carbon Footprint And Emission” in the year of November 2024 (Design number: 6400730)
5. International Patent Granted on “ Scanning Device for Real-Time GST Calculation” in the year of December 2024 (Design number: 6414790)
6. International Patent Granted on “ Disaster Response Sensor Hub for Civil Infrastructure” in the year of November 2024 (Design number: 6401618)

Text Books published:

1. Srinivasa Acharya , **Dr. D. Vijayakumar**, Kaliseti Ramadevi ,Janam Sindhu , and Balla Suresh, “ Analysis of a Hybrid Generation System with Power Smoothing Functionality Using DIBBD AI Based Neural Network Controller”, Book chapter on Computing and Machine Learning Proceedings of CML 2024, Volume 2 at January 2024, Online ISBN 978-981-97-7838-6
2. **Tummala S. L. V. Ayyarao, L. Venkata Sureshkumar & D. Vijaya Kumar** “ Support vector Machine-Based Dynamic Cyber-Attack detection in AGC system”, Book chapter on Intelligent Computing in control and communication at Aditya Institute of technology and Management, tekkali on August 2020, Online ISBN978-981-15-8439-8
3. NeyyalaRaju , N. Murali Mohan and **Dr. D. Vijayakumar**, ‘**A Review of Extended Voltage Range DC-DC Converter Topologies**’, Lecture Notes in Networks and Systems book series (LNNS, volume 569), International Conference on Intelligent Computing & Optimization, Home Intelligent Computing & Optimization pp 770–780 on October 2022, Online ISBN978-3-031-19958-5
4. A text book on Power System Operation and Control Published by Scitech publications (India) Pvt., Chennai. In 2004.
ISBN: 9788183716536
5. Anuku Arjuna Rao, P. Mallikarjuna Rao and D. Vijaya Kumar, **Dr. D. Vijaya Kumar**, “ A Combined Deep Learning Framework for Predicting Electrical Load Using Temporal Convolution, Recurrent, and Transformer Layers”, in 2nd International Conference on EMERGING TECHNOLOGIES & APPLICATIONS IN ELECTRICAL ENGINEERING, ICATEE 2024 at NIT, Raipur during 18th – 19th December 2024.
(Accepted for Book Proceedings)
6. N. Sowjanya, **Dr. D. Vijaya Kumar** and P. Mallikarjuna Rao, “ New Routh approximation method for Discrete time SISO Interval systems Impulse Energy”, in 2nd International Conference on Emerging Technologies & Applications In Electrical Engineering, ICATEE 2024 at NIT, Raipur during 18th – 19th December 2024.
(Accepted for Book Proceedings)
7. J.Vijaychandra, **Dr. D. Vijaya Kumar**, K.Veda Prakash, B.Vanajakshi, D.Narendra Kumar A.Bhaskara Rao, A.Anil Kumar, Ch.Harika Shivani and P.Venkata Lakshmi, “ Scaled Conjugate Gradient Control Machine learning algorithm for switching of boost converters employed in a grid tied solar PV systems”, in 2nd International Conference on Emerging Technologies & Applications In Electrical Engineering, ICATEE 2024 at NIT, Raipur during 18th – 19th December 2024.
(Accepted for Book Proceedings)
8. Vijaychandra joddumanhanthi, Yatindra Gopal, **Dr. D. Vijaya Kumar**, Vanajakshi Bammidi, Bhaskara Rao Ankam, Venkata Lakshmi P, “Extraction of maximum power of a Solar Photovoltaic Energy systems using Cuckoo Search Algorithm”, National Conference on Innovations in Science & Technology (IST-2024) at National Institute of Technology Srinagar during 28th – 29th November 2024.
(Accepted for Book Proceedings)

9. A.Arjuna Rao, J.Vijaychandra, P.Mallikarjuna Rao, **Dr. D. Vijaya Kumar**, “ Optimal switching of step-up converter employed in distributive grid using Bayesian Regularization approach”, in International Conference on Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2024) at AITAM-Tekkali during 04th – 05th December 2024. **(Accepted for Book Proceedings)**

20. Professional recognitions, awards, fellowships received:

Awards:

- Received State Teacher Award 2019 in Electrical and Electronics Engineering by Institute of scholars (International), on 05th March 2018.
- Received Best Electrical and Electronics Engineering Teacher 2020 Award sponsored by Geethanjali Institute of Science and Technology, Nellore (ISTE AP Section)
- Received State Teacher Award 2022 in Electrical and Electronics Engineering by Government of Andhra Pradesh, on 05th September 2022.

Recognitions:

- Received Certificate of Excellence in Electrical and Electronics Engineering by VSSUT Burla, International conference on computational intelligence in data mining, Conducted by Department of CSE, IT and MCA on 20th – 21st December 2014.
- Selected best paper in International Conference on Computational Intelligence and Engineering Applications to be held at Bhubaneswar, during 16th-17th, October, 2011
- Certificate of Appreciation by AICTE, New Delhi (Coordinated ATAL Online FDP on Electrical vehicles from 16-11-2020 to 20-11-2020)
- Received best paper award on “ Wind farm based on PMSG for better dynamic stability”, International conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023) at Department of Electronics and Communication Engineering, Velammal Institute of Technology, Chennai on 23rd and 24th March, 2023.

Any other information.

Life member of MISTE,
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Signature of the applicant