

PROFILE



1. **Name** : Dr.V.S.R.Pavan Kumar.Neeli
2. **Date of Birth** : 15-05-1988
3. **Unique ID (AICTE FID)** : 1-1374850216
4. **Email** : pavanscholar123@gmail.com;
crrpavankumar@gmail.com
5. **Phone** : +91-9703988089; 8309227142
6. **Address for communication:** D.no:4-86,Near Vidyavikas college boys Hostel,
Satramapdu, Eluru, W.G.Dist, A.P, Pin: 534007
7. **Educational Qualifications:**

Qualification	Institute	University/ Board	Specialization	Year of Passing	Division/ Class
Ph.D. (Full-Time)	GITAM Institute of Technology	GITAM (Deemed to be University)	Power Systems and Control	2021	-----
PG	SIR C R Reddy College of Engineering	Andhra University	Power Systems and Automation	2013	First Class with Distinction
UG	Sri Vasavi Engineering College	JNTU Kakinada	Electrical and Electronics Engineering	2009	First Class with Distinction
Inter/Diploma	Sri Chaitanya Junior College	Board of Intermediate Education	M.P.C	2005	First Class with Distinction
SSC	St.Xavier's (EM) School	Board of Secondary Education	S.S.C	2003	First Class with Distinction

8. **Ph.D Thesis Title:**

Performance Evaluation of AGC Controllers for Multi Area Hybrid Power Systems Based on Multi Objective Optimization.

9. **Work Experience:** 12 Years 03 Months

Name of the Organization	Designation	Date From	Date To
Chirala Engineering College	PRINCIPAL	19-10-2023	Till Date
RV Institute of Technology	Associate Professor	07-10-2023	18-10-2023
SIR C R Reddy College of Engineering	Associate Professor	01-04-2022	06-10-2023
SIR C R Reddy College of Engineering	Assistant Professor	01-06-2012	31-03-2022
GITAM(Deemed to be University)	Research Scholar	11-04-2017	20-09-2020
Eluru College of Engineering and Technology	Assistant Professor	07-12-2009	16-11-2010

10. Courses taught:

S.No.	Name of the subject	UG/PG	DEPT
1.	Electrical Machines	UG	EEE
2.	Electrical Power Generation and Utilization	UG	
3.	Power Systems-I	UG	
4.	Utilization of Electrical Energy	UG	
5.	Digital Control Systems	UG	
6.	Digital Signal Processing	UG	ECE
7.	Signals and Systems	UG	
8.	Electronic Devices and Circuits	UG	
9.	Intelligent Systems and Control	PG	EEE

11. Administrative Responsibilities:

S.No.	Description	College/ Department level
1.	NBA Criteria Coordinator	Department level
2.	Techfest 2021 Coordinator	Department level
3.	External Lab Time table Member	Department level
4.	Internal Examination Member	Department level
5.	Anti-Ragging Committee Member	Department level

12. Research Guidance:

M.Tech.		B.Tech	
Completed	Ongoing	Completed	Ongoing
04	00	09	00

13. Research Publications in Journals (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Journal	National/ International	Month & Year	Volume, Issue No, Page Nos	UGC/ Web of Sciences / Scopus/ SCI/Others
1.	Neeli VSR Pavan Kumar, and Nerella Sameera, et.al	Clustering based Intrusion Detection System for effective detection of known and Zero-day attacks	Journal of Advanced Zoology	International	2023	Vol.44, Issue 04, ISSN: 0253-7214	SCOPUS & WOS & UGC
2.	Neeli VSR Pavan Kumar, and Nerella Sameera, et.al	Design of load frequency controller using Gorilla Troops Optimizer	International Journal of Creative Research Thoughts (IJCRT)	International	2023	Vol.11, Issue 2, ISSN: 2320-2882	UGC

3.	Neeli VSR Pavan Kumar, and Nerella Sameera, et.al	Frequency Stabilization of Multi Area Autonomous Hybrid Power System Using Single and Multi- Objective ALP Swarm Algorithm	i-managers Journal on power systems engineering	International	2021	Vol. 8, No.4, ISSN: 2321- 7499	UGC
4.	Nerella Sameera and V.S.R.Pava n Kumar.Nee li	INDIA's Warfare with COVID – The Invisible Enemy	European Journal of Molecular & Clinical Medicine (EJMCM)	International	2020	Vol. 7, Issue 10, pages 9- 16	Scopus
5.	Neeli, VSR Pavan Kumar, and Nerella Sameera.	JAYA Algorithm Based Frequency Regulation of Thermal Power System Interconnecte d with Micro Grid	Solid State Technology	International	2020	Vol.63, Issue.6 ISSN: 12535- 12542	Scopus
6.	Neeli VSR Pavan Kumar, and Nerella Sameera	Automatic generation control of hybrid two area power system using whale optimization algorithm	i-manager's Journal on Electrical Engineering	International	2020	Vol. 14, No. 2, ISSN:097 3-8835, pages- 21-30	UGC
7.	Neeli VSR Pavan Kumar, and U.Salma	Fuzzy PID plus double Integral controller for Multi area Deregulated Hybrid Power system using Multi objective SSA	International Journal of Advanced Science and Technology (IJAST)	International	2020	Volume- 29, Issue-4, ISSN: 2005- 4238, pages: 3291- 3313	SCOPUS
8.	Neeli VSR Pavan Kumar, and	Load frequency control (LFC) Multi area Restructured Hybrid power	International Journal of Innovative Technology and	International	2019	Volume- 9, Issue- 2S3, pp.395- 402, ISSN.	SCOPUS

	U.Salma	system on Multi objective SSA	Exploring Engineering (IJITEE)			2278-3075	
9.	Neeli VSR Pavan Kumar, and U.Salma	AGC of Multi area Hybrid power system based on Multi objective optimization	International Journal of Scientific and Technology Research (IJSTR),	International	2019	Volume-8, Issue-12, pp.2532-2546, ISSN. 2277-8616,	SCOPUS
10.	Neeli VSR Pavan Kumar, and U.Salma	Automatic Generation control for Autonomous Hybrid power system using single and multi objective Salp swarm algorithm	Advances in Intelligent systems and computing (AISC)	International	2019	Volume-1039, pp.624-636,ISSN :2194-5357	SCOPUS
11.	Neeli VSR Pavan Kumar, and U.Salma	Tuning of 2DOFPID Controller for Autonomous Hybrid Power system: A Multi objective optimization Approach”,	International Journal of Recent Technology and Engineering (IJRTE),	International	2019	Volume-8, Issue-1, pp. 93-100, ISSN. 2277-3878	SCOPUS
12.	Neeli VSR Pavan Kumar, and U.Salma	Robust Multi Objective Control of Autonomous Hybrid Power System	International Journal of Engineering and Advanced Technology (IJEAT)	International	2019	Volume-8 Issue-4, pp.612-619, ISSN. 2249-8958	SCOPUS
13.	Neeli VSR Pavan Kumar, and U.Salma	Automatic Generation Control of Autonomous Hybrid Power System using 2DOFPID Controller	Journal of Advanced Research in Dynamical and Control Systems (JARDCS)	International	2019	Volume-11, Issue-4, pp. 2095-2106, ISSN. 1943-023X	SCOPUS
14.	Neeli VSR Pavan Kumar,	Differential Evolution algorithm based TID controller for	i-manager's Journal on Electrical Engineering,	International	2019	Volume-12, Issue-2, pp.15-23,	UGC

	and U.Salma	Autonomous Hybrid power system				(2018)	
15.	Neeli VSR Pavan Kumar	Power system stability enhancement using tilt- integral- derivative controller (TID)	IJRAET, New Engineering Journal,	International	2017	ISSN 2455- 0876	Google Scholar
16.	Neeli VSR Pavan Kumar	A Novel of Primary Distribution Networks with Multiple Distributed Generator placement for Loss reduction”	International Journal of Professional Engineering Studies	International	2016	Volume- 7, Issue- 5, pp: 290-297,	Google Scholar
17.	Neeli VSR Pavan Kumar	Improvement of Power Quality by Employing Dual UPQC with Fuzzy logic controller	International Journal of Advanced Technology and Innovative Research	International	2015	Volume- 7, Issue- 18, ISSN 2348- 2370, pp: 3671- 3681	Google Scholar
18.	Neeli VSR Pavan Kumar	Damping of Low frequency of oscillations Using Population based Techniques for Power System Stabilizer	Elsevier Procedia Engineering	International	2012	Volume- 38, pp. 1077- 1083	UGC

14. Research Papers in Conferences (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Conference/Journal	National/ International	Month & Year	UGC/ Web of Science s/ Scopus/ SCI/Oth ers
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1.	Neeli VSR Pavan Kumar, Nerella Sameera, and K.Kotaiah Chowdary, et.al	Spotted Hyena Optimized PI- PD Controller for Frequency Control of Standalone μ - Grid Incorporating Electric Vehicles	IEEE-2023 Second International Conference on Electronics and Renewable Systems (ICEARS-2023)	International	2023	Scopus
2.	Neeli VSR Pavan Kumar, Nerella Sameera, and K.Kotaiah Chowdary, et.al	Design of Load Frequency controller Using Whale optimization Algorithm	2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon)	International	2022	Scopus
3.	Neeli VSR Pavan Kumar, Nerella Sameera, and Ganta Chamundeswa ri et.al	Stock market Prediction using reinforcement learning-A Survey	International Conference on Contemporary Innovations in Engineering & Management in Data Sciences IOT & Computational Techniques, AIP Conference Proceedings-2821	International	2022	Scopus & WOS
4.	Neeli VSR Pavan Kumar, and U.Salma	Load Frequency Control (LFC) of a Multiarea Restructured Hybrid Power system on Multiobjective SSA	National Conference on Advances in Communication Technologies	National	2019	Scopus
5.	Neeli VSR Pavan Kumar, and U.Salma	Automatic Generation Control of Autonomous Hybrid Power System Using 2DOFPID Controller	International Conference on Advances in Signal Processing, Power, Embedded, Soft Computing, Communication and Control Systems	International	2019	Scopus
6.	Neeli VSR Pavan Kumar, and U.Salma	Optimal Tuning of PID controller for Autonomous Hybrid Power System using Swarm	International Conference on Computational and Intelligent Techniques for Automation of Engineering Systems	International	2018	Scopus

		Intelligence techniques”				
7.	Neeli VSR Pavan Kumar	Improvement of Stability in Multi machine systems with Fuzzy logic based power system stabilizer	International Conference	International	2013	-----
8.	Neeli VSR Pavan Kumar, et.al	Enhancement of power system stability using fuzzy logic based Power system stabilizer	National Conference (CONCON-2012)	National	2012	-----
9.	Neeli VSR Pavan Kumar, et.al	Design and Dynamic Stability Enhancement Using Population Based Techniques for Power System Stabilizer	National Conference	National	2012	Scopus

15. Workshops/ FDPs/STTPs/ etc., (Attended):

S.No.	Name of the Workshop/ FDP/STTP/ etc.,	Place	Period	
			From	To
1.	One day National Webinar on “The Art of Writing Research Article and Publishing in High Impact SCOPUS/SCI-E Journals ”	MLR Institute of Technology, Hyderabad	09 th June 2023	09 th June 2023
2.	One week faculty development program on “Machine Learning in Big Data Applications and Security Challenges”	MLR Institute of Technology, Hyderabad	24 th April 2023	29 th April 2023
3.	Two days National Level Seminar on “Recent Advancement in Engineering”	Sandip Foundation’s Shri Ram Polytechnic, Bihar	10 th April 2023	11 th April 2023
4.	Five day faculty development program on “Design of High-Frequency Antennas for Real-time Applications”	GMR Institute of Technology & V R Siddhartha Engineering College	14 th March 2023	18 th March 2023

5.	One week International Level Workshop on “Opportunities and Challenges in IT sector: Software Mastery Bootcamp –Unlock Your Potential ”	G.Pulla Reddy Engineering College, Kurnool	6 th March 2023	11 th March 2023
6.	One week faculty development program on “Energy Harvesting Technologies”	Geethanjali College of Engineering and Technology, Hyderabad	27 th Feb 2023	4 th March 2023
7.	Five day National Level faculty development program on “Artificial Intelligence/Machine Learning/Deep Learning ”	DRK College of Engineering and Technology, Hyderabad	20 th Feb 2023	24 th Feb 2023
8.	Five day faculty development program on “Current Trends in Artificial Intelligence and Engineering applications in the area of Machine Learning and Deep Learning”	JNTU, Vizianagaram	6 th Feb 2023	10 th Feb 2023
9.	IP Awareness/Training Program under National Intellectual Property Awareness Mission	Intellectual Property Office	31 st Dec 2022	
10.	One week online faculty development program on “Recent Advances in Power Electronics and Drives for the Integration of Future Energy Sources”	Lendi Institute of Engineering and Technology, Vizianagaram	19 th Dec 2022	24 th Dec 2022
11.	One week online faculty development program on “Hybrid Electric Vehicles”	GMR Institute of Technology & V R Siddhartha Engineering College	21 st Nov 2022	25 th Nov 2022
12.	One week online faculty development program on “Recent Advances in Electrical Engineering”	G.Pulla Reddy Engineering College, Kurnool	17 th Oct 2022	21 st Oct 2022
13.	One week National Level online faculty development program on “Smart Grids and Micro Grids in Indian Context”	Mahatma Gandhi Institute of Technology, Hyderabad	20 th June 2022	24 th June 2022
14.	Two Week online Short Term Training Program on “Exploring Latest Trends in Big Data and Machine Learning”	P.R.Pote Patil College of Engineering and Management, Amaravati	23 rd May 2022	02 nd June 2022
15.	One Week Faculty Development Programme on “Research Opportunities in Electrical Power Engineering”	P V P Siddhartha Institute of Technology, Vijayawada	23 rd March 2022	27 th March 2022
16.	One week online faculty development program on	GMR Institute of Technology & V R	7 th March 2022	12 th March

	"Recent Advancements in Generation and control in Modern Power Systems"	Siddhartha Engineering College		2022
17.	One week national level online faculty development program on "Signals, Systems and Transform Techniques"	Maturi Venkata Subba Rao (MVSR) Engineering College (Autonomous), Hyderabad.	22 nd Novemeber 2021	27 th November 2021
18.	One Week Faculty Development Programme on "Vibration and Condition Monitoring (VACM-2021)"	Vasavi College of Engineering, Hyderabad	20 th September 2021	24 th September 2021
19.	One day Webinar on "Research Metrics and Software Tools"	Research and Development Cell, Lakireddy Balireddy college of Engineering	20 th September 2021	20 th September 2021
20.	National level Webinar on "A Complete Pathway of Research for Young Researchers"	Sri Venkteswara college of Engineering and Technology, Etcherla, Srikakulam, Andhra Pradesh 30 th June 2021	30 th June 2021	30 th June 2021
21.	International Webinar on "How to publish in A grade/SCI indexed journals"	GSSS Institute of Engineering and Technology for Women, Mysuru in Association with IEEE Mysore Sub Section and IEEE Bangalore Section	14th June 2021	14th June 2021
22.	One Week Short Term Training Program on "Automation and Intelligent Control of Electrical Systems-Phase-IV"	Gudlalleru Engineering college, Gudlalleru	15-03-2021	20-03-2021
23.	AICTE sponsored Two Week Online Faculty Development Programme (Phase-I), on "Renewable Energy Intervention In Industry, Commercial And Domestic Application"	Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh	15-02-2021	27-02-2021
24.	Two day Webinar on "Energy Efficient Distribution Systems (EEDS-2021)"	Dept of EEE, Silicon Institute of Technology, Bhubaneswar in association with IEEE PES chapter from 8 th -9 th th	08-01-2021	09-01-2021

		January 2021.		
25.	AICTE Sponsored One Week National Level Online Short Term Training Program on “Recent Trends and Challenges in Power Market with Smart Grid Technology (Phase-II)”	V R Siddhartha Engineering College, Vijayawada	28/12/2020	02/01/2021
26.	AICTE Sponsored Six days Online Short Term Training Program on “Technical writing and Research Methodology”	Chaitanya Bharathi Institute of Technology, Proddatur	28/12/2020	03/01/2021
27.	AICTE One week Online Short Term Training Program (Phase-3) on “Electrical Vehicles: A Green Approach for Sustainable Development of Transportation in INDIA”	Vasireddy Venkatadri Institute of Technology, Nambur	14-12-2020	19-12-2020
28.	AICTE One week Online Short Term Training Program (Phase-2) on “Recent Trends in Power Electronics & IoT Applications to Electrical Vehicles”	Vasireddy Venkatadri Institute of Technology, Nambur	23-11-2020	28-11-2020
29.	Webinar on “Recharge Yourself”	Arasu college of Education for women and Ponkalamman College of education, Karur	20-11-2020	20-11-2020
30.	Two day National level Webinar on “Smart Grids in Electrical Engineering (SGEE-2020)”	Andhra University College of Engineering, Visakhapatnam,	25-09-2020	26-09-2020
31.	Online Short Term Training Program (Sponsored by TEQIP-III) on “Power Electronic Applications to Industrial Systems”	National Institute of Technology (NIT) Silchar, Assam	07-09-2020	11-09-2020
32.	Five Day Online Workshop on “The Development of the Energy Internet of Things (eIoT) in Green Energy Infrastructure”	National Institute of Technology (NIT) Silchar, Assam	01-09-2020	05-09-2020
33.	Oneday Webinar on “Python for Machine Learning, Artificial Intelligence and Data Science”	GITAM School of Technology, Bengaluru	06-09-2020	06-09-2020
34.	Webinar on “Cyber Threats and Data Breaches ”	SRKR Engineering College, Bhimavaram	29-08-2020	29-08-2020
35.	Faculty Development Program on “Intellectual Property Rights”	Organized by TCS	26-08-2020	28-08-2020
36.	Webinar on “Industrial Electrical Systems in association with L&T	SIR C R Reddy College of	27-06-2020	27-06-2020

	Electrical & Automation”	Engineering, Eluru		
37.	One day National Workshop on “Transition of Power Sector in INDIA to Meet Futuristic Energy Needs, Challenges and Issues”	GITAM (Deemed to be University), Visakhapatnam,	21-02-2019	21-02-2019
38.	One week Hands on Training Program on “Photovoltaic Systems and DC Microgrids”	Andhra University College of Engineering, Visakhapatnam	17-12-2018	21-12-2018
39.	Two Day Hands on workshop on “Metaheuristic Optimization in Multidisciplinary Research”	Andhra University College of Engineering, Visakhapatnam,	26-10-2018	27-10-2018
40.	Two Day workshop on “Green Energy & Smart Grids”	PVP Siddhartha Institute of Technology, Vijayawada	20-07-2018	21-07-2018
41.	Two Day workshop on “MATLAB FOR ENGINEERING APPLICATIONS”	SIR C R Reddy college of Engineering, Eluru	12-02-2016	12-02-2016
42.	One Day workshop on “PLC Programming & Applications”	HITECH Automation, Vijayawada and conducted at SIR C R Reddy college of Engineering	01-03-2015	01-03-2015

16. Patents (Filed/Granted):

S.No.	Title	Application Number	Year	Filed/Granted
1.	Hybrid AI architecture for analysis of charging profile of Electric Vehicles	202131040276	2021	Granted
2.	House Exterior as Storage Unit	202241033969	2022	Granted
3.	Artificial Intelligence Based Load Demand Forecasting for Green Microgrid Cluster	202241076962	2023	Granted
4.	IOT BASED SOLAR POWERED ROBOT FOR AGRICULTURE	388519-001	2023	Granted

17. Online Courses (Completed/Ongoing)

S.No.	Title	Organized	Year	Performance
1.	Introduction to Machine Learning	NPTEL (IIT Kharagpur)	2023	Elite

18. Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1.	Associate Member of Institute of Engineers (INDIA) (AMIE)	AM1638354	LifeTime

19. Special Achievements (If any):

- Reviewer for AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is being organized at Nitte Meenakshi Institute of Technology, Bengaluru, INDIA during 1st and 2nd, September 2023 in association with IEEE Bangalore Section.
- Acted as Observer for APSLPB Examination 2023.
- Completed Research Work (Ph.D) in three years with good publications.
- Acted as a Department Staff Co-ordinator for the online Techfest 2K21.
- Participated and won First place in 44th A.P.College Teacher's Badminton (Shuttle) Tournament held at SIR C R Reddy College of Engineering, Eluru on 28th & 29th January 2017.
- Secured 26th rank in Visvesvarayya Ph.D scheme-2016.
- Ratified as Assistant Professor from Andhra University, Visakhapatnam.
- Ratified as Assistant Professor from JNTUK, Kakinada.
- Stood as Class topper for 1st year at Post Graduation (M.E) level
- Stood as Class topper for 3rd year at Graduation (B.Tech) level.
- Member of LEE association at college level.

20. Personal Details:

- (a) Father's Name : (Late) N.Koteswara Rao
- (b) Mother's Name : N.Venkata RajyaLakshmi
- (c) Gender : Male
- (d) Marital Status : Married
- (e) Religion : Hindu
- (f) Nationality : INDIAN
- (g) Languages Known : English, Telugu, Hindi
- (h) Hobbies : Reading research papers, Listening Music

Signature



(Dr.V.S.R.Pavan Kumar.Neeli)