FACULTY PROFILE

Name : Dr. S. N. V. Bramareswara Rao

Designation : Associate Professor

Department: Electrical and Electronics Engg.

Date of Joining: 22-06-2015Nature of Employment: RegularDate of Birth: 21-02-1987Unique ID (AICTE FID): 1-2658666442

Email : snvbrao.eee@gmail.com



Address for communication:

C/O S. Srinivasa Rao, Door No: 28-1-92, Vijayasri Apartment, Flat No-203, Santhi Nagar 4th Line, Eluru, Andhra Pradesh, India-534007.

Educational Qualifications:

Qualification	Institute	University/ Board	Specialization	Year of Passing	Division/ Class
Ph.D.	A U College of Engineering, Visakhapatnam	Andhra University	Microgrids (Electrical Engineering)	2022	
PG (M.E.)	Sir C. R. Reddy College of Engineering, Eluru.	Andhra University	Power Systems and automation	2015	First Class with Distinction
UG (B.E.)	Sir C R Reddy College of Engineering, Eluru.	Andhra University	Electrical and Electronics Engineering	2008	First Class with Distinction
Intermediate	KPR & JL Siddhartha Jr. college, Eluru.	Inter	M.P.C	2004	First Class with Distinction
SSC	St. Xavier's T.M High School, Eluru.	SSC		2002	First Class with Distinction

Thesis Details:

Ph.D. - "Study of Energy Management and Power Quality aspects of Interconnected Microgrids".

M.E. – "Performance analysis and Placement of SFCL & FCC to mitigate Fault Currents in Smart Grids with Different types of Distributed Generation Sources".

Work Experience:

Teaching: 15 Research: 0 Industry: 0 Total: 15

Name of the Organization	Designation	From	То
Sir C. R. Reddy College of Engineering	Associate Professor	01-11-2022	Till date
Sir C. R. Reddy College of Engineering	Assistant Professor	22-06-2015	31-10-2021
Ramachandra College of Engineering	Assistant Professor	02-06-2014	15-06-2015
Sir C. R. Reddy College of Engineering	Assistant Professor	13-06-2008	07-12-2012

Courses Taught:

S. No.	Name of the subject	UG/PG
1	Power System Analysis & Stability	UG
2	Power System Operation and Control	UG
3	Electrical Measurements	UG
4	Signals and Systems	UG
5	Digital Control systems	UG
6	Power Electronics	UG
7	Linear Integrated Circuits and its applications	UG
8	Pulse and Digital Circuits	UG
9	Instrumentation	UG
10	Performance and Design of Electrical Machines-3	UG
11	Real Time Control of Power Systems	PG
12	Advanced Drives and Control	PG

Administrative Responsibilities handled:

S. No.	Description	College/ Department
1	In-charge of Electrical Maintenance	College
2	Techfest-2018 Department Co-Coordinator	College
3	Department Level coordinator of games	College
4	Anti-ragging Committee member	College
5	Alumni Coordinator	College
6	Convener of Fee Committee	College
7	IQAC Coordinator	Department
8	Guest Lectures/Workshops In-charge	Department
9	Timetables In-charge	Department
10	Electrical workshop lab in-charge	Department

Research Guidance:

B.7	ech.	M. Tech.		
Completed	On going	Completed	On going	
12	02	03	NIL	

Project Titles:

S. No.	Year	B.Tech/M. Tech	Title of the Project
1	2023	B.Tech	Fault Detection & Classification in Microgrid using Artificial Neural Networks
2	2022	M. Tech	Fault Detection in Cluster Microgrids of Urban Community Using Multi Resolution Technique based Wavelet Transforms
3	2022	B.Tech	Modeling and Analysis of Three Zone Protection Of Transmission Line Using Impedance Relay
4	2021	B.Tech	Development of Hierarchical Multi Agent Based Control Algorithm for Interconnected Microgrids
5	2020	M. Tech	Droop Control with Improved Disturbance Adoption and STATCOM implementation for PV system with Two Power conversion Strategies
6	2020	B.Tech	Operation, Control and Optimization of Microgrid System
7	2019	B.Tech	Modeling and Analysis of Solar/Wind/Fuel Cell Hybrid Power System
8	2018	B.Tech	Modeling and Analysis of Hybrid PV/Wind/FC power system under grid connected mode
9	2017	M. Tech	Modeling and Design of Hybrid Control strategy for power quality improvement in a grid connected renewable energy source
10	2017	B. E.	Analysis and Design of Hybrid Power System
11	2016	B.E.	Mitigation of fault currents using super conducting fault current limiter in Hybrid Power System
12	2012	B.E.	H Bridge VSC with a T-Connected Transformer based three phase four wire D-STATCOM for power quality improvement
13	2011	B.E.	Simulink implementation of induction machine using V/F control
14	2010	B.E.	A T-Connected Transformer and Three-leg VSC Based DSTATCOM for Power Quality Improvement
15	2009	B.E.	Study of dynamic stability of power system using PSS and Fuzzy Controller

Research ID's (Links):

https://scholar.google.com/citations?user=UAXd788AAAAJ&hl=en (Google Scholar)

https://www.scopus.com/authid/detail.uri?authorId=57202995366 (Scopus)

https://www.webofscience.com/wos/author/rid/AAI-5661-2021 (Web of Science)

https://orcid.org/0000-0002-1538-2270 (ORCID)

https://sciprofiles.com/profile/2163393 (Sciprofiles)

https://www.researchgate.net/profile/N-V-Rao-S (Research Gate)

https://vidwan.inflibnet.ac.in/profile/301393 (Vidwan)

Research Publications in Journals (National/International):

S.No.	Author(s) Name	Title of the Paper	Name of the Journal	National/ International	Month & Year	Vol., Issue, Pages	Index
1	S. N. V. Bramareswara Rao, Y. V. P. Kumar, Md. Amir, S. M. Muyeen	Fault Detection and Classification in Hybrid Energy Based Multi Area Grid Connected Microgrid Clusters Using Discrete Wavelet	Electrical Engineering (Springer)	Inter national			SCIE
	-	Transform with DNN		Major Revision	s Submitt	ted	
2	Y. V. P. Kumar, S. N. V. Bramareswara Rao, Ramani Kannan	Islanding Detection in Grid Connected Urban Community Multi- Microgrid Clusters Using Decision Tree Based Fuzzy Logic Controller for	Urban Science (Q1, IF-2.0)	Inter national	Sep. 2023	Vol. 7, Issue-3	ESCI
		Improved Transient Response	https://doi.org/10.3390/urbansci7030072				2
3	S. N. V. Bramareswara Rao, Y. V. Pavan Kumar, Md. Amir,	An Adaptive Neuro- Fuzzy Control Strategy for Improved Power Quality in Multi-	IEEE Access (Q1, IF-3.476)	Inter national	Dec. 2022	Vol. 10 128007- 128021	SCIE
	Furkan Ahmad	microgrid Clusters	https://d	oi.org/10.1109/	ACCESS.2	022.3226	670
4	S. N. V. Bramareswara Rao, N. R Narayana, T. D. Prasanna, MSNL	Fault Detection in Cluster Microgrids of Urban Community using Multi-Resolution Technique based	IJRER (Q4, IF-8.74)	Inter national	Sep. 2022	Vol. 12, Issue-3, 1204- 1215	ESCI
	Narasimha Rao	Wavelet Transforms	https://do	i.org/10.20508/i	jrer.v12i	3.13129.g	3505
5	S. N. V. Bramareswara Rao, Y. V. P. K, Padma K, Pradeep DJ, Reddy CP, Amir	Day-ahead Load Demand Forecasting in Urban Community Cluster Microgrids Using Machine	Energies (Q1, IF-3.252)	Inter national	Aug. 2022	Vol. 15, Issue-17	SCIE
	M, Refaat SS	Learning Methods	http	s://doi.org/10.3	390/en15	5176124	

6	Kumar YVP, S. N. V. B. Rao , Padma K, Reddy CP, Pradeep DJ,	Fuzzy Hysteresis Current Controller for Power Quality Enhancement in Renewable Energy	Sustainability (Q1, IF-3.889)	Inter national	April 2022	Vol. 14, Issue-8	SCIE
	Flah A, Kraiem	Integrated Clusters	http	s://doi.org/10.3	390/su1	4084851	
7	S. N. V. Bramareswara Rao, Kumar YVP, Pradeep DJ, Reddy CP, Flah A, Kraiem	Power Quality Improvement in Renewable-Energy- Based Microgrid Clusters Using Fuzzy Space Vector PWM	Sustainability (Q1, IF-3.889)	Inter national	April 2022	Vol. 14, Issue-8	SCIE
	H, Al-Asad JF	Controlled Inverter	http	s://doi.org/10.3	390/su1	4084663	
8	S. N. V. Bramareswara Rao, Kottala Padma	ANN based Day-Ahead Load Demand Forecasting for Energy Transactions at Urban Community Level with Interoperable Green	IJRER (Q4, IF-8.74)	Inter national	Mar. 2021	Vol. 11, Issue-1, 147-157	ESCI
		Microgrid Cluster	https://do	i.org/10.20508/	ijrer.v11	i1.11731.g	8121
9	S. N. V. Bramareswara Rao, Kottala Padma	Control of Grid Frequency under Unscheduled Load Variations: A Two Layer Energy Management Controller	IJRER (Q4, IF-8.74)	Inter national	Dec. 2020	Vol. 10, Issue-4, 1951- 1961	ESCI
		in Urban Green Building's	https://doi.org/10.20508/ijrer.v10i4.11549.g8097				
10	S. N. V. Bramareswara Rao, Y. V. Pavan Kumar, Kottala	Implementation of Minigrid with Hybrid Renewable Energy Sources for Urban	IJRTE	Inter national	Nov. 2019	Vol. 8, Issue-4, 10882- 10992	UGC
	Padma	Community Buildings	https://doi.org/10.35940/ijrte.D4412.118419				19
10	T. D. Prasanna, S. N. V. Bramareswara Rao, P. Lalitha	An Efficient Hybrid Controller for ON Grid PV System with Improved Power Quality Features	IJR	Inter national	June 2019	Vol. 8, Issue-6, 6924- 6931	UGC
11	S. N. V. Bramareswara Rao, Y. V. Pavan Kumar, Kottala Padma	Framework for Forming Minigrids by Interfacing Urban Community Buildings	IJPAM	Inter national	April 2018	Vol. 118, Issue- 24, pp.1-19	UGC
12	Y. N. Mounika, J. Ayyappa, S. N. V. Bramareswara Rao,	Modeling & Design of Hybrid Control Strategy for Power Quality Improvement in Grid Connected RES	IJEAT	Inter national	Dec. 2017	Vol. 7, Issue-2, pp.75- 82	UGC

13	S. N. V. Bramareswara Rao, Shyam Mohan S Palli	Analysis & Positioning of Resistive Super Conducting Fault Current Limiters in Smart Grids	IJEAR	Inter national	June 2014	Vol. 1, Issue-4, 72-76	UGC	
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^{*}ESCI -Indexed in both Scopus and Web of Science

Research Papers presented in Conferences:

S.No	Author Name	Title of the Paper	Name of the Conference	National/ Inter national	Month & Year
1	S. N. V. Bramareswara Rao, Y. V. Pavan Kumar	Performance Analysis of Different ANN- based Weight Updating Algorithms in Forecasting Short Term Load Demands	2023 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream), Vilnius, Lithuania	Inter National	May 2023
		in Cluster Microgrids	https://doi.org/10.1109/eSt	ream59056.202	3.10134880
2	Kottala Padma, S. N. V. Bramareswara Rao	A Hierarchical Multi Agent based Coordinated Control for the Interoperable Microgrids Cluster at Urban community	International Conference on Engineering Research & Technology Transfer, Ethiopia	Inter National	May 2021
3	S. N. V. Bramareswara Rao, Shyam Mohan S Palli, Kottala Padma	Operation and control of wind/ solar/ diesel generator based hybrid microgrid in grid connected mode under fault conditions	IEEE, International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Chennai, India (Scopus) https://doi.org/10.1109	Inter National	Aug. 2018 389511
4	S. N. V. Bramareswara Rao, Shyam Mohan S Palli	Placement of smart fault current controller to mitigate fault currents in smart grids with different DG's	National Conference in power systems	National	May 2014

Book Chapters:

S.No	Author Name	Title of the Chapter	Publication Name	Month & Year
1	S. N. V. Bramareswara Rao, Y. V. Pavan Kumar, Md. Amir	Power Quality Improvement In Hybrid PV-FC Microgrid Using Fuzzy Based Current Controlled Voltage Source Inverter	Artificial Intelligence Based Control of Renewable Energy Systems Tailor and Francis (CRC Press)	Under Review

S. N. V.

Bramareswara
Rao, Kottala
Padma

A Review on Schemes for
Interconnecting Microgrids
of Urban Buildings

Springer Lecture Notes in
Electrical Engineering Book
Series (LNEE) (Scopus)

Volume 655, pp. 431-438, April 2021

https://doi.org/10.1007/978-981-15-3828-5_45

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

CN	N CH W L L (FDD)(CFFFD)	DI.	Period			
S.No.	Name of the Workshop/FDP/STTP/etc.,	Place	From	То		
1	National Seminar on Information and Communication Security	School of Electronics Engineering (SENSE), VIT-AP University, Amaravati (AP), India	28-07-2023			
2	One week national level FDP on Recent Trends in Green Energy Initiatives and Soft Computing Techniques	MGIT, Hyderabad, Telangana	11-07-2023	15-07-2023		
3	One week online FDP on Hybrid Electric Vehicles	GMRIT, Rajam and V.R. Siddhartha Engg., college, Vijayawada	21-11-2022	25-11-2022		
4	Webinar on Issues in Grid Integration of Renewable Energy	Vignan University, Guntur, Andhra Pradesh	06-06	5-2021		
5	National Level Webinar On Open Source Software For Econtent Development - Obs Studio	St. Xavier's Institute of Education – Mumbai	06-07-2020			
6	National Level webinar on Integration on Renewable Energy Systems with Microgrid	Prasad V. Potluri Siddhartha Institute Of Technology, Vijayawada	01-07-2020			
7	Five day online STC on Research Opportunities in Power Electronics	Tirumala Engineering College, Narsaraopet	26-06-2020	30-06-2020		
8	Five day online FDP on Recent trends in Power Electronics and Energy Storage Systems	Vardhaman Engineering College, Hyderabad	10-06-2020	14-06-2020		
9	Webinar on Home Electrical Energy Management	SIRCRRCOE, Eluru	05-06	-2020		
10	Webinar of Power Quality Analysis and Simulation Using ETAP	St. Joseph's Institute of Technology, Chennai	19-05	-2020		
11	Webinar on Grid connected and Standalone Solar plant Design using Homer PRO	St. Joseph's Institute of Technology, Chennai	14-05-2020			
12	A two week FDP on AI,ML,DL	Ramachandra college of Engg, Eluru	20-01-2020 01-02-2020			
13	Effects of Wind on structural and Facade design and Simulation of actual atmospheric boundary layer and studies in the wind tunnels	SIRCRRCOE, Eluru	14-12-2018			
14	A three day workshop and evaluation of research works	SIRCRRCOE, Eluru	17-07-2019	19-07-2019		

15	Instructional design and delivery system	SIRCRRCOE, Eluru	04-12-2017	09-12-2017
16	Fuzzy logic and Neural Networks	SIRCRRCOE, Eluru	12-07-2011	

Sponsored Projects:

S. No.	Name of the project	Funding Agency	Duration & Type	Status	Role	Grant
1	NA	NA	NA	NA	NA	NA

Patents:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award/ Published Date	Agency/ Country	Status
1	Multi Antenna Handler	Arshad Md., S. N. V. Bramareswara Rao, M. A. Raheem, M. H. Ali, G. R. Kiran	380823-001 (Design)	24/11/2023	IP India	Granted
2	Artificial Intelligence Based Load Demand Forecasting for Green Microgrid Cluster	:	202241076962 (Utility)	06/01/2023	IP India	Published
3	Hybrid Renewable Energy System Covering Energy Storage Device Coordination Method	K. Padma, S. N. V. Bramareswara Rao, A. S. Prakasa Rao, Y. V. P. Kumar, M. Manogna, Satyanarayana B, G. G. Swamy, K. R. Charan		15/07/2022	IP India	Published

Awards/Fellowship Received:

S. No.	Name of Fellowship	Awarding Agency	Year
	Flactronics & IT	Digital India Corporation, Ministry of Electronics and Information Technology (MeitY), Government of India.	2016-2022 (Rs. 2,50,000/-)
2	lengingering II_/\Tell	Ministry of Human Resource Development (MHRD), Government of India.	2012-14 (Rs. 1,92,000/-)

Professional Memberships:

S.No.	Name of the Professional Body	Membership No.	Membership Type
1	MISTE	LM 80737	Life Time
2	MIEEE	96449631	

Membership in BOS/ Editorial Boards:

S. No.	Name of the journal	Editor/ Reviewer
1	Green Electricity Journal (Academic Publisher) https://ojs.acad-pub.com/index.php/GE/about/editorialTeam	Editor
2	Energy Storage and Conversion https://ojs.acad-pub.com/s.php/index/detail?id=274	Editor
3	Journal of Electrical and Electronic Engineering http://www.eeejournal.org/editorial-board	Editor
4	International Journal of Electrical Power System & Technology (STM Journals)	Editor
5	Journal of Power Electronics and Power Systems (STM Journals)	Editor
6	International Journal of Power Electronics and Controllers (STM Journals)	Editor
7	Cybernetics and Systems (Tailor & Francis)	Reviewer
8	Journal of Sustainable Forestry (Tailor & Francis)	Reviewer
9	International Journal of Ambient Energy (Tailor & Francis)	Reviewer
10	IEEE Access (IEEE)	Reviewer
11	Electrical Engineering (Springer)	Reviewer
12	Discover Energy(Springer)	Reviewer
13	Sustainability (MDPI)	Reviewer
14	Applied Sciences (MDPI)	Reviewer
15	Electronics (MDPI)	Reviewer
16	Mathematics (MDPI)	Reviewer
17	World Electric Vehicle Journal (MDPI)	Reviewer
18	Bulletin of Electrical Engineering and Informatics	Reviewer
19	Indonesian Journal of Electrical Engineering and Computer Science	Reviewer
20	International Journal of Power Electronics and Drive Systems	Reviewer
21	International Journal of Computing and Digital Systems	Reviewer
22	Scientific Reports (Springer)	Reviewer

Details of Personal Blogs/ Educational YouTube Channels/e content (if any):

- > Personal Blog: Bramareswararao.blogspot.com
- Power System Analysis playlist: https://www.youtube.com/playlist?list=PLdzhX8ESR4Xc9FvmnSXgnRgQ8MYy0Vy0Z
- Signals and Systems playlist: https://www.youtube.com/playlist?list=PLokEvIN0a5sgd8CYZtzX3WTPAwPbhQag4

Certification courses completed

- Coursera certification on "Electric Power Systems"
- Coursera certification on "Solar Energy Basics"
- Coursera certification on "Write and Publish a Paper"

Special Achievements (If any):

- **Qualified** in Gate-2012.
- ➤ Registered Ph.D. in Andhra University under **Visvesvaraya Ph.D. fellowship scheme**, supported by Digital India Corporation, Govt. of India by **securing 16th Rank**.
- ➤ Appointed as a Resource person in "Induction Training of Stipendiary cadet trainee police constables at DTC", West Godavari, A.P, India, 2018.
- **Ratified** as an Assistant Professor in **Andhra University**, Visakhapatnam.
- Ratified as an Assistant Professor in Jawaharlal Nehru Technological University, Kakinada.
- **Observer** for **AP SLPRB** Examination 2023.
- **Observer** for **AP PGCET** Examination 2023.

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Dr. S. N. V. Bramareswara Rao