

## DR. SNV Ganesh

*Principal & Professor,  
Avanathi Institute of Engineering & Technology,  
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### *Objective*

*A successful professional having 17 years experience in teaching, and 5 years experience in research and design of SMPS and VRLA batteries aiming to be a part of progressive organization that gives scope to enhance my knowledge and skills to reach the pinnacle in the computing and research field.*

### *Professional Summary*

- ◆ *Ratified as a Principal from JNTUH in 2016*
- ◆ *Ratified as a Assoc. Prof from JNTUH and JNTUK*
- ◆ *5 years experience as a principal.*
- ◆ *5 PhDs awarded under my supervision*
- ◆ *Expert in outcome based NBA & NAAC accreditation; obtained NBA for various colleges*
- ◆ *A dynamic, team spirited and performance driven engineering professional with over 22 years of teaching/industrial experience.*
- ◆ *Aware of aicte, Jntuk and Jntuh rules and norms.*
- ◆ *Experience in curriculum design, industrial collaborations*
- ◆ *Planning and implementation of College development activities.*
- ◆ *Good understanding of Student and Staff Mentality, Working with the team in the Official and Teaching professional.*
- ◆ *Working knowledge in executing value added courses in association with industries.*
- ◆ *Innovative professional with proven ability to identify, analyze, and solve problems to increase Dept result as well as college result.*
- ◆ *Deep understanding of technology with focus on delivering solutions. Proven ability to be a strong professional with the sound knowledge of the new technologies and advance applications.*
- ◆ *Recommended resolutions to complex matters of significance and coordinate the implementation of the approved course of action.*
- ◆ *Expert in preparing effective student career planning and managing student relations*
- ◆ *Good communication, interpersonal, and computer skills*
- ◆ *Ability to coordinate with the community leaders and help the college grow through societal activities.*
- ◆ *Skilled in developing network and raising funds for the college through research and consultancy activities.*
- ◆ *Create an identity of the college at national and possibly international levels through national and international collaborations.*
- ◆ *Maintain good relations with university.*
- ◆ *Improve research activities in the institutions.*

- ◆ 3 years of Experience to conduct the all Online Exams like IBPS, TSPSC-govt.

### **Accomplishments & Achievements**

- ◆ MoU with City university Malaysia and Avanthi Institute of Engineering & Technology, Visakhapatnam
- ◆ Holds the distinction of establishing 2 centre of excellence in the campus sponsored by state govt.
- ◆ 5 Ph.D awardees and 1 perusing under Shri venkateswara University Gajaraula, UP, India
- ◆ Published 2 books on power quality
- ◆ Awarded Best swatchh campus award in Telangana State and successfully 3 UG programs accredited by NBA.
- ◆ Received Best NSS award from JNTUH
- ◆ Organized 2 International conferences collaborations with foreign universities.
- ◆ Successfully published 20 research publications in various international peer reviewed journals.
- ◆ Effectively published 2 IEEE conference paper with M.Tech. project students.
- ◆ Member of Board of Studies in VRSEC till 2014.
- ◆ Obtained NBA accreditation for 5 years in VRSEC
- ◆ Obtained NBA accreditation for 3 years in BEC, KLCE
- ◆ Currently guiding 5 research scholars
- ◆ Active member in curriculum design for UG programme in VRSEC
- ◆ Reviewer for IET Journal.
- ◆ Chaired a session in IEEE conference-Mysuru
- ◆ Chaired a session in international conference-ICCISC-VBIT

### **Books Published**

- ◆ Power Quality Improvement Using Series Power Quality Controller, LAP Lambert Academic Publishing, ISBN: 3659778095, 9783659778094
- ◆ Mitigation of Voltage Sag and Swell by Using DVR, LAP Lambert Publishing, ISBN : 33300444837, 9783330044838

### **Technical skills**

- ◆ Matlab/Smulink
- ◆ Pspice
- ◆ MS Word
- ◆ MS Excel

### **Professional Skills**

- ◆ Strategic Planning
- ◆ College Administration
- ◆ Student Management
- ◆ Infrastructure management
- ◆ Training & Placement
- ◆ Curriculum Development

- ◆ Board Meeting

### *Personality Traits*

- ◆ Communication
- ◆ Proactive & Positive
- ◆ Liaison & Coordination
- ◆ Detail Oriented
- ◆ Accreditation Planning
- ◆ Research Documents

### *Work Experience*

- ◆ 1 year experience as **Professor** in Vignan Bharathi Institute of Technology, Hyderabad  
2017- 2018
- ◆ 1 years of work experience as a **Professor & Principal** in Avanthi Institute of Engineering and Technology, Hyderabad.  
2016 -2017
- ◆ 1 years of work experience as a **Professor & HoD** in Sri Sivani College of Engineering , Srikakulam.  
2015 -2016
- ◆ 1 Year of work experience as **Professor and Dean** in PBRVITS, Kavali 2014 - 2015
- ◆ 6 years of work experience as an **Associate Professor & HoD** in the Department of Electrical and Electronics Engineering, V.R. Siddhartha Engineering college, Vijayawada,  
2008 - 2014
- ◆ 1 year of work experience as an **Assistant Professor** in the Department of Electrical and Electronics Engineering, Koneru Lakshamaiah College of Engineering, Vijayawada  
2007 - 2008
- ◆ 2 years of work experience as a **lecturer** in the Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla  
2005 - 2007
- ◆ 5 years experience as a Engineer in HBL Limited  
1998 - 2003

### *Ph.D Summary*

*Title: A Unique algorithm for injecting voltage in a three phase power quality controller*

*The work is the complete design of controllers for mitigating voltage sags and interruptions. The time domain parameters like settling time, peak overshoot, and rise time are considered to tune controller parameters. Apart from time domain parameters, stability analysis, and disturbance rejection concepts are considered for controller tuning. IMC, RST and Neural controller is modeled in the thesis work. IMC provides a single degree of freedom whereas RST provides two degrees of freedom; Hence RST is better controller as it uses feed-forward controller and a feedback controller, but tuning is difficult compared to IMC.*

### *Sponsored Projects Submitted*

- ◆ Proposed New Gen IEDC -Ahmadabad
- ◆ Proposed DST-SERB
- ◆ Proposed RPS-AICTE

### **Technical Strength**

- ◆ Operating Systems: Windows XP
- ◆ Languages: MATLAB, Python
- ◆ Tools Utilities: Simulink, PSPICE,

### **Research and Development**

- ◆ 2 scholars got Ph.D awarded from Shree Venkateswara University, Gajraula
- ◆ 3 scholars got Ph.D awarded from Shri Sathya Sai Technology and Medical Science University, Sehore

### **Education Credentials**

<b>Examination passed</b>	<b>University/Board</b>	<b>Year</b>	<b>Class</b>
S.S.C	Central Board of Secondary Education	1991	First Class
INTERMEDIATE	Central Board of Secondary Education	1993	First Division
BE(EEE)	Andhra University, Andhra Pradesh	1998	First Class
M.Tech (PE & D)	Bharath University, Chennai	2005	First Class With Distinction
PhD (Power Quality)	JNTUH, Hyderabad	2013	Awarded Degree

### **Avanathi Institute of Engineering & Technology**

**2018 - Till**

**Professor & Principal, I am responsible for**

- ❖ Handle college administration.
- ❖ Plan and implement College academic calendar
- ❖ Mentor the faculty towards research and consultancy
- ❖ Maintain learning atmosphere in the campus
- ❖ Good communication, interpersonal, and computer skills
- ❖ Coordinate with the community leaders and help the college grow
- ❖ Create an identity of the college at national and possibly international levels.
- ❖ Expert in outcome based NBA accreditation
- ❖ Maintain good relations with the university.
- ❖ Improve research activities in the institutions.
- ❖ Obtaining MoUs with industries
- ❖ Certified courses in college
- ❖ Placement training planning and implementation

### **Achievements**

- ❖ 5 Ph,Ds awarded , 1 pursuing
- ❖ Established CM Centre of Excellence
- ❖ Established Dassault Lab sponsored by AP State Govt.
- ❖ Awarded Best swatch campus award in Telangana State
- ❖ Obtained NAAC accreditation
- ❖ Successfully 3 UG programs accredited by NBA
- ❖ Best NSS award from JNTUH

### **Vignan Bharathi Institute of Technology**

**2017 - 2018**

**As an Professor, I was responsible for**

- ❖ NBA accreditation for the department

- ❖ *Academics co-ordinator*
- ❖ *B.Tech Project Co-ordinator*
- ❖ *IQAC Co-ordinator in the department*

***Achievements***

- ❖ *Obtained NBA for 3 years*
- ❖ *Obtained NAAC – A*
- ❖ *Organized International Conference*

***Avanathi Institute of Engineering & Technology Principal*** **2016-2017**  
***Principal,***

- ❖ *Strong experience of handling college administration.*
- ❖ *Excellent teaching experience and abilities to train faculty do their best*
- ❖ *Expert in preparing effective college curriculum and managing student relations*
- ❖ *Good communication, interpersonal, and computer skills*
- ❖ *Ability to coordinate with the community leaders and help the college grow*
- ❖ *Skilled in developing network and raising funds for the college*
- ❖ *Create an identity of the college at national and possibly international levels.*
- ❖ *Expert in outcome based NBA accreditation*
- ❖ *Maintain good relations with university.*
- ❖ *Improve research activities in the institutions.*

***Achievements***

- ❖ *Guiding 3 PhD scholars*
- ❖ *Awarded Best swatch campus award in Telangana State*

***Sri Sivani College of Engineering*** **2015-2016**  
***As a HoD & Professor, I was responsible for***

- ❖ *Department administration*
- ❖ *Filing NBA application*
- ❖ *Filing NAAC application*
- ❖ *Planning co-curricular and extra-curricular activities*
- ❖ *Implementation of teaching and learning process*

***Achievement***

- ❖ *Filed NBA and NAAC application successfully*
- ❖ *Implemented Outcome based Education in the department.*
- ❖ *Got permanent affiliation to the college*
- ❖ *Guided 2 M.Tech projects*
- ❖ *20plus publication by the faculty*

***PBR VITS*** **2014-2015**

***As a HoD, I was responsible for***

- ❖ *Department administration*
- ❖ *Filing NBA application*
- ❖ *Filing NAAC application*
- ❖ *Planning co-curricular and extra-curricular activities*
- ❖ *Implementation of teaching and learning process*

***Achievements***

- ❖ *Filed NBA and NAAC application successfully*
- ❖ *Implemented Outcome based Education in the department.*
- ❖ *Got permanent affiliation to the college*
- ❖ *30plus publication by the faculty*

***V. R. Siddhartha Engineering College*** **2008-2014**

***As an Associate Professor & HoD, I was responsible for***

- ❖ *TEQIP-II, SC 1.2 Additional Coordinator*

- ❖ NBA Coordinator
- ❖ Power Electronics Lab in-charge
- ❖ In-Charge for teaching learning process
- ❖ B. Tech project coordinator
- ❖ Complete awareness of OBE System-New NBA Format

**Achievements**

- ❖ 6 research publications in various international journals.
- ❖ Produced 2 IEEE conference paper with M.Tech project students.
- ❖ Produced 1 international journal paper with B.Tech project student.

**Koneru Lakshamaiah College of Engineering**

**2007-2008**

*As an Assistant professor, I was responsible for*

- ❖ Power Electronics Lab in-charge
- ❖ Internal quality auditor
- ❖ M.Tech course coordinator
- ❖ In-Charge for teaching learning process
- ❖ B.Tech project coordinator
- ❖ Guided 9 M.Tech projects and 4 B.Tech projects.

*I handled following subjects*

- ❖ Industrial drives
- ❖ Digital signal processing
- ❖ Advanced Power Electronics
- ❖ Utilization of electric power
- ❖ Power Electronics

**Bapatla Engineering College**

**2005-2007**

*As a lecturer, I handled following subjects during my tenure*

- ❖ High voltage direct current
- ❖ Utilization of electrical power
- ❖ Power electronics
- ❖ Computer networks
- ❖ Guided many B.Tech projects inside and outside the college with MATLAB, and PSIM.

**HBLNIFE Power Systems Ltd**

**1998-2003**

*As a Test lab In-Charge, I was responsible for*

- ❖ Engineering Documentation.
- ❖ Preparation of procedures in Lab.
- ❖ Managing the facility and manpower associated with it.
- ❖ Define qualifications and test requirements.
- ❖ Assist production opportunities.
- ❖ Familiarity with common electronic tools such as MATLAB, ORCAD etc.

**Achievements**

- ❖ Successfully implemented 25 amps SMPS module after successful R&D.
- ❖ Systemized the test facility and established procedures leading to optimal use of the facility.
- ❖ Got cash award of Rs.30000/- for implementing SMPS module.

**Field of interest**

**Field interest:** Power Electronics, Power Quality Improvement, Renewable energy sources, Control systems, Wavelet Transforms and Multilevel converter.

**Seminar and Workshop**

- ◆ Signed MoU with Telangana Academy of Skill and Knowledge for imparting training with subsidized rated to students.

- ◆ *Delivered lecture in 3 days Faculty Development Programme on “Fuzzy applications to electrical Engineering in Avanthi Institute of Engineering & Technology, 2016*
- ◆ *Delivered Guest Lecture on “Wavelet application to Electrical Engineering” in MVR college of Engineering, Paritala, Vijayawada, 2012*
- ◆ *Delivered Guest Lecture on “ Wavelet application to Electrical Engineering” in Sasi Institute of Technology, Tadepalligudem, West Godavari Distt., 2013*
- ◆ *Delivered Guest Lecture in 5 days Faculty Development Programme on “Artificial Neural networks & Fuzzy Logic” in VRSEC, Vijayawada, 2012*
- ◆ *Delivered Guest lecture in 2 days FDP on “ Advances in Distributed Systems”*
- ◆ *Co-chaired International conference organized jointly with EIE & ECE, “ ASECI”, VRSEC, 2010.*
- ◆ *Attended 2 days workshop on “ ROBOGYAN” ,VRSEC, 2010*
- ◆ *Attended 2 Days workshop on “Soft Computing Techniques”, Andhra University, Visakhapatnam, 2008.*
- ◆ *International conference jointly with ECE “ RSPS-2008”, KLCE, 2008*
- ◆ *One day workshop on “ Gas Insulated Substation”, KLCE, Vijayawada, 2007*
- ◆ *Attended Two days Workshop on “HVDC, FACTS and Intelligent Control Techniques “under networking activity of TEQIP, Bapatla, 2006.*
- ◆ *Organized 1 day workshop on “House wiring & motor winding” under networking activity of TEQIP, Bapatla for poor people, 2006.*
- ◆ *Attended refresher Course on “Simulation Tools for Electrical Engineering Applications” at KITS, Warangal, 2006.*
- ◆ *Attended 5 days Workshop on “Computer Methods in Power Systems” at LBRCE, Mylavaram during 2005.*

#### **Research Publications- Journals/Conferences**

1. *A. Shilpa Gupta, Dr. A. S. Rathore, Dr. S.N.V. Ganesh, “ Review the Quality in Renewable Energy into the Grid “, IJGDC, Vol 14, Issue 1, 2021*
2. *A. Shilpa Gupta, Dr. A.S. Rathore, Dr. S.N.V.Ganesh, “ Analyzing the Enhancement of Quality of the Injected Renewable Energy into the Grid”, IJGDC, Vol 14, Issue 1, 2021*
3. *Valiveti Hima Bindu, SNV Ganesh, Anil Kumar Budati, Dileep Kumar Yadav “Energy Efficient Ambience Awake Routing with OpenFlow Approach”, CMC-Computers, Materials & Continua. Tech science Press, Vl.67, No.2. pp:2049-2059, 2021. DOI: 10.32604/cmc.2021.014690. (SCI-Expanded Journal). Q2 Level, Impact Factor: 3.722*
4. *Budati Anil Kumar, SNV Ganesh, C. Kumar, P. Anil Kumar, Krishna Moorthy V, “High speed Image encryption using the optimized memory based RSA algorithm”, International Journal of Circuit World, Emerald Publisher, Accepted for publication, (SCI-Expanded Journal). Q2 Level, Impact Factor:1.698*
5. *Anil Kumar Budati, George Ghinea, SNV Ganesh, “Novel Aninath Computation Detection Algorithm to identify the UAV Userin 5G Networks” International Journal of Wireless Personal Communications, Springer Publisher, April-2021, pp:1-16. DOI: 10.1007/s11277-021-08459-3. (SCI-Expanded Journal). Q3 Level, Impact Factor: 1.671*

6. L Vennela and Dr. S N V Ganesh , "ANN based Transformerless UPFC for Effective Power Flow Control ", IJMTS, Vol 6, Issue 11, 2020 UGC , Nov 2020 Impact Factor: 5.88
7. P Suresh Babu and Dr. S N V Ganesh , "Power Management Strategy between PV-Wind Hybrid System Using Cuckoo MPPT Techniques ", IJMTS, Vol 6, Issue 11, 2020 UGC , Nov 2020 Impact Factor: 5.88
8. Ganesh Nommula and Dr. SNV Ganesh, "Optimal Power Flow Analysis Using Facts Devices", Think India Journal, Vol – 22, Issue – 22, ISSN:0971 – 1260, December- 2019
9. K.Shivakesava Reddy, Dr.S.N.V. Ganesh, " Optimal Placement of DG by BAT Algorithm", Science, Technology and Development Journal, Vol 9, Issue 1, 2020 UGC
10. K. Siva Kesava Reddy, SNV Ganesh, "14-bus DG optimal Placement & sizing using Particle Swarm Optimization", Journal of Engineering Sciences, Vol 9, Issue 6, 2018.
11. SNV Ganesh, V. Praveen," Particle Swarm optimization and Internal Model Control based tuning technique for PI controller for DVR for improved dynamic response and power quality", IJPAM, Vol.110, Issue 10, 2018 **Scopus**
12. SNV Ganesh, Bhola Jha, " Vector-controlled Induction motor drive using intelligent RST Robust controller", CISC-**Springer**, 2018.
13. SNV Ganesh, V. Praveen, "A comparison between SFLA and Wavelet based zero Active Power Tracking Technique for improving DVR capability and Voltage sag", IJARDC, Vol.10, 2018 **Elsevier Scopus**
14. SNV Ganesh, Arun Kumar, " Study of Direct Torque control of Three phase Induction motor by MATLAB", TEE, Vol 8, Issue 1, 2018 **UGC**
15. SNV Ganesh, Arun Kumar, " Study of stator voltage control method for induction motor torque control using MATLAB Simulation", JMEA, Vol.4, Issue 3, 2017 **UGC**
16. SNV Ganesh, Gayatri B "Modeling and Analysis of SEPIC using DVR for solar PV systems", IJERT, Vol. 5, Issue 2, Feb 2016 **UGC**
17. SNV Ganesh, V Praveen, "Fuzzy controlled Dynamic Voltage Regulator for Power Quality Improvement", IJEPPE 1 (1), 23-32, 2016
18. SNV Ganesh, T. Suneel, "Performance Investigation of SEPIC based Dynamic Voltage Restorer", IJNTSE, Vol. 1, Issue. 4, Dec. 2014
19. SNV Ganesh, K. Ramesh Reddy, B.V. Shankar Ram, "Comparison of different control strategy for pole placement for cascade multilevel inverter based dynamic voltage restorer", JES, 2010, ISSN:1112-5209, **SCI-E**
20. SNV Ganesh, K. Ramesh Reddy, B.V. Shankar Ram, "Internal Model Control Strategy based Cascaded 5 Level Inverter Type Dynamic Voltage Restorer for Power Quality Improvement" IJEEE, Vol 3, Number 1 (2010), pp. 171 – 181,ISSN 0974-2174
21. P. Manoj Kumar, Y.Sumanth and SNV Ganesh, "Improving power quality by MLCI type DSTATCOM" IJCA, Vol 10, Issue 1 PP 36-41, 2010, ISSN : 0975-2174, **Scopus**
22. SNV Ganesh, K.Ramesh Reddy, B.V. Shankar Ram, "A neuro Control Strategy for Cascaded Multilevel Inverter Based Dynamic Voltage Restorer" IJEPE, Vol. 3 Issue 4, 2009 : 208:214, ISSN:1990-7958



23. SNV Ganesh, K. Ramesh Reddy, B.V. Shankar Ram, "Comparison of different control strategies for cascade multilevel inverter based dynamic voltage restorer", IJEEEE, Vol. 7 No. 11, 2009, 16:26, ISSN:0974-2042
24. A. Soujanya Devi, SNV Ganesh, " A novel controller for reference signal tracking", IJEEEE, Vol 06, Issue 9, pp 59-63, 2009, ISSN 0974-2042
25. SNV Ganesh, Sriram Vanga, "Comparison of Fourier Transform and wavelet packet transform for quantification of power quality", IEEE Conf, 2012
26. SNV Ganesh, Dr. K. Ramesh Reddy, Dr. B.V. Sanker Ram, "Different Control Strategies for Power Quality Using Dynamic Voltage Restorer", IEEE TechSym 2011, IIT Kharaghpur, 2011
27. SNV Ganesh, "Comparison of different multilevel topologies and control strategies for DSTATCOM for reduction of harmonics", CMRP, Tamil Nadu, 2011, 56-61.
28. SNV Ganesh, "Cascaded 5 level inverter type DSTATCOM power quality improvement", IEEE TechSym 2010, IIT Kharaghpur, 2010
29. SNV Ganesh, U.V. Ramakrishna, "A Robust controller for dynamic voltage restorer for mitigating voltage sags at load end", EIEEE2010, Perambur, Tamil Nadu, pp: 37-42.
30. SNV Ganesh, T. Rahul, P. Bapaiah, "Power Quality improvement in electronic load controller for an isolated micro steam, power generation", CPEDS-2010, Visakhapatnam, pp: 191-195
31. SNV Ganesh, K. Ramesh Reddy, B.V. Shanker Ram, "An Efficient Neuro-Wavelet Control Strategy for Improving Power Quality", IEEE POWERCON08, IIT Delhi, 2008
32. A. Anantha Laxmi, SNV Ganesh and Ramalinga Reddy, "Modeling and simulation of predictive current mode control of high power factor boost rectifier", PSACO 08, AU, 2008.
33. SNV Ganesh, K. Ramesh Reddy, "Comparison of PI & ANN control strategies for unified power quality conditioner at load side", NCPP07, GNITS, Hyderabad, 2007.

### Strengths & Extra Curriculum Activities

<b>Strengths</b>	<ul style="list-style-type: none"> <li>◆ Determination to do task given management.</li> <li>◆ Planning &amp; analytical skills.</li> <li>◆ Strict adherence to time schedule &amp; positive thinking.</li> <li>◆ Motivate and mentor faculty and students</li> <li>◆ Thinking towards problem solving.</li> <li>◆ Fast Learning.</li> <li>◆ Completing the given task with in schedule.</li> <li>◆ Expert in Outcome based Education</li> </ul>
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**Extra  
Curricular  
Activities**

- ◆ Guided 25+ B.Tech and 12 M.Tech projects.
- ◆ Coordinator for UG NBA coordinator, Dept Seminar and Workshop Activities in KLCE, VRSEC .
- ◆ Power Electronics lab -In charge in BEC, VRSEC
- ◆ Chairperson of BoS in VRSEC, Institute discipline Committee
- ◆ Additional TEQIP coordinator in VRSEC.
- ◆ NBA coordinator for PG in VRSEC
- ◆ In charge for Teaching learning process in BEC.

**Personal  
Profile**

Fathers Name: S.R. Mohan Rao  
Gender: Male  
Date of birth: 01-04-1976  
Marital status: Married  
Nationality: Indian  
Linguistic Ability: English, Telugu and Hindi  
Current salary Rs 1,67,000  
Expected Salary As per college Norm  
Present Address: D.No:2-175/5, Kothapalem, Gopalapatnam,  
Visakhapatnam, Andhra Pradesh-530027

Place: Visakhapatnam

DR. SNV Ganesh

Date:

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