

# SREE VIDHYA VAIDYANADHAN,

B.E.(EEE), M.E.(PEDC), M.B.A.(HR), (Ph.D)

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## PROFILE SUMMARY

I am currently working as an **Assistant Professor** in **Electrical and Electronics Engineering Department** with **seven years of experience teaching engineering graduates**. I'm aspiring and working towards doing a doctorate. **Deliver lectures for undergraduate students, conduct activities to enhance interpersonal skills, guide projects with formative assessments** in the areas of Power Electronics and Renewable Energy Systems and **win over conflict** with my pedagogical skills.

Adept in **modularised teaching techniques** tailored towards the learning ability of the students. Proficient in imparting instructor-led **training through field visits** and lab based learning resources like **Virtual labs**. This is achieved by incorporating **Outcome Based Education** methods . I rejoice in offering my support and attention to help others in their academic, **nurture values** that promotes **social responsibilities and job placement activities**.

To excel as a researcher and instructor , key participation lies in team oriented tasks, improve effectiveness in the areas of recent technologies for the holistic development, active participation in presenting and guiding students in paper presentations at conference/journals. I am a member of professional societies.

Apart from teaching, I have experience in undertaking administrative responsibilities for NBA and NAAC accreditations .

## SKILL SUMMARY

**Courses Taught** : Renewable Energy Sources and Systems, Energy Audit, Conservation & Mgt., Electrical Machines, Network Analysis, Power Electronics.

**Labs Handled** : Basic Electrical Engineering Lab, Power Electronics Lab, DC Machines Lab

**Software Tools** : MATLAB/Simulink, Pspice,

**Open Source Tools** : Solar Advisory Model (SAM), PVSyst, Life Cycle Assessment(LCA)

**Under Graduate Projects Guided** :

- (a) Design and Analysis of Series Loaded resonant Converter fed by Standalone /PV Source .
- (b) Maximum Power Point Tracking of PV Module using Golden Section Search Method.
- (c) Energy Audit- A case Study of an Institutional Building.
- (d) Home Automation System Using Internet of Things.
- (e) Design and Stimulation of Standalone PV System for Domestic Loads using SAM

## RESEARCH INTEREST

- Power Electronic Converters
- Renewable Energy Sources and Systems
- Energy Conservation and Management
- Optimization Techniques

## PROFESSIONAL EXPERIENCE

College Name : Gayatri Vidya Parishad College of Engineering for Women

Designation : Assistant Professor

Duration : August 2015-Till Date

### *Responsibilities:*

- Teach allocated courses such as **Renewable Energy Sources, Power Electronics, Electrical Machines and also electives like Energy Audit, Conservation and Management to undergraduate students**. To assist other senior professors in imparting instructional programs.
- Delivers instructor-led training by developing course materials in accordance with NBA principles- defining objectives, grading rubrics, and student assessment plans and also **conduct field visit and Virtual labs based learning other than laboratory sessions for practical exposure to the students of relevant study** .
- Get hold of students from interactive classes using a student-centered approach based on analysis of individual learning styles and needs.
- **Assess student performance and conducts regular feedback sessions to inform students on their progress, identify their weak points, and create individualized training plans.**
- **Mentor 15 students out of 60 students per semester.**
- Evaluate students skill performance by assigning term projects and also encourage them to work as a team.
- **Maintained continuous professional development by** participation in various FDPs/ Conferences/Workshops and Seminars on Energy Engineering , Design of Power Electronic Converters for integration of RES organised by various IITs, NITs and Universities.
- Participate in the evaluation of the semester exams and progress reports of the students.
- **Refine learning activities using lesson plans and learning strategies to help the students.**
- Conduct class committee meetings thrice in a semester to fulfil their requirements if any.
- **Excellent interpersonal, oral and written communication skills ,ability to manage time and work within strict timelines.**
- Cultural Coordinator of the institution as I am certified musician in Carnatic Music (Vocal).
- Served in the team of organizers for Technical and Cultural events in the institutional level.
- **Served as editorial member for e-magazine of the department.**

## CORE COMPETENCIES

- Data Interpretation : To design and evaluate the performance of Renewable Energy Systems
- Certification : Successfully Completed various NPTEL Courses with **Elite Certification** and received **Certificate of Appreciation**
- Conferences/Journals : No. of International Journals -- 3  
International Conference attended -- 2

## EDUCATION AND QUALIFICATIONS

Dec, 2020	Registered as Research Scholar in Electrical Engineering Dept. , NIT Andhra Pradesh.
2011-2013	<b>Master of Electrical Engineering (1<sup>st</sup> Class)</b> with the specialization in “Power Electronics, Drives and Control”, Andhra University, Visakhapatnam - INDIA
2003-2006	<b>Bachelor of Electrical and Electronics Engineering (1<sup>st</sup> Class)</b> - Andhra University, Visakhapatnam – INDIA
2000-2003	<b>Diploma in Electrical and Electronics Engineering (1<sup>st</sup> Class)</b>
1999-2000	<b>Class X (1<sup>st</sup> Class)</b>

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

Student Member of Institute of Electrical and Electronics Engineers (IEEE)  
Member of Institute of Engineers (India)  
Member of International Association of Engineers (IAENG) Society of Electrical Engineering  
Member of International Society for Research and development (ISRDI)  
Member of International Association for Water, Environment, Energy and Society (IAWEES)

## FDPS/CONFERENCES/WORKSHOPS

- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Power Electronics Applications In Smart Grids And Electric Vehicles (PEASE - 2021)**" from 25<sup>th</sup>-29<sup>th</sup> June,2021 at National Institute of Technology Andhra Pradesh.
- Participated in AICTE One Week Online STTP (Phase-3) on “**Electric Vehicles: A Green Approach for Sustainable Development of Transportation in India**” from 14<sup>th</sup> -19<sup>th</sup> December, 2020 Organized by Department of Electrical & Electronics Engineering, Vasireddy Venkatadri Institute of Technology , Nambur.
- Participated and Completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "**Energy Engineering**" from 17<sup>th</sup>-21<sup>st</sup> September,2020 at Velammal Engineering College.
- “**Design and Analysis of Series Loaded Resonant Converter fed by Standalone/PhotoVoltaic (PV) Source**” during 2nd International Virtual Conference on Advances in Electrical Drives, Process Control and Automation on 09<sup>th</sup> June 2020 at Vellore Institute of Technology, Vellore. Jointly organized by VIT Vellore, India; University West, Sweden; and Aalborg University, Denmark.
- "**Maximum Power Point Tracking Of Photovoltaic Modules Using Golden Section Search**" method during International Conference on Modern Technologies in Engineering and Science, on 3rd June 2017 held at Andhra Pradesh, INDIA.

## PAPER PUBLICATIONS

- “**Design and Analysis of Series Loaded Resonant Converter fed by Standalone/PV Source**” is published in IOP Conference Series Material science and Engineering, <https://iopscience.iop.org/journal/1757-899X>.
- '**Maximum Power Point Tracking Of PV Module Using Golden Section Search Method**' in International Journal Of Engineering Sciences & Research and Technology (IJET),July 2017.
- "**Research Work On Conservation of Environmental Waste To Energy**" in International Journal Of Engineering Sciences & Research and Technology (IJESRT), October 2016.
- “**Comparative Analysis Of Improved Quality Three Phase AC/DC Converters Based On Flyback And Cuk Topologies**, International Journal in Engineering, Research and Technology (IJERT),ISSN:2278-0181,Volume 2 ,Issue 1 January 2013.