

## Dr. Venkatesh Naik. M

Assistant Professor AGP-8000 July 2019 onwards.

Department of Electrical Engineering.

M.N.National Institute of Technology Allahabad, 211004(U.P.) India.

**E-Mail:** venkateshn@mnnit.ac.in.

**Phone:** 0532-2271402(O), 08174800802(Mobile).

**Research Interest:** My research focus is on power converter topologies for renewable energy include (solar, fuel cell, wind and micro turbine) Power electronics for electric vehicles, charging stations for electric vehicles, superfast charging topologies, electrical energy storage technologies for electric vehicles.

### Message :

“One needs to have Sincerity, Dedication and Commitment (SDC) in their life”.

“Health is wealth but wealth is not health” your health is in your hands --be aware

There is always a solution for the problem you face in your life, don't get depressed, and keep motivated.

Celibacy is an ultimate way for your success in your life, my friend try to follow it for 12 years and become legend.

### Educational Qualifications:

Degree	Year of Award	Institute/University	Specialisation	Division
Polytechnic	2005	Govt.,Polytechnic Anantapur.	Electrical and Electronics Engineering.	69.34 %
B.Tech.	2008	S.K.University Anantapur.	Electrical and Electronics Engineering.	69.20 %
M.Tech.	2010	NIT Trichy.	Power Systems	CGPA 7.44/10
Ph.D	2017	MNNIT Allahabad.	Power Electronics Engineering.	CGPA 9.00/10

### Courses Taught Previously:

1. B.Tech 2/4 EC-Sem II:EE-403 -Electrical Machines.
2. Btech 4/4 EE-Sem-I:EE-808- Power System Operation and Control.
3. B.Tech 4/4,EE-Sem-I:EE-2222- Utilisation of Electrical Energy and Electric Traction.
4. B.Tech 2/4-ME,Sem-I, Basic Electrical and Electronics.

5. B.Tech 2/4,EC-EE-1302: Principles of Electrical Engineering and Measuring Instruments.
6. B.Tech 3/4, EE-Sem II:EE-1607- Power Plant Engineering.
7. B.Tech 2/4, EE-Sem I:EE-603- Power System-1 laboratory.
8. B.Tech 2/4, EE-Sem I:EE-1451 Electrical Machines-1 lab.
9. B.Tech 2/4, EE-Sem I:EE-1453 Power Systems-II lab.
10. B.Tech 2/4,EE-Sem-I, EE-1352: Electrical Measurements and Measuring instruments lab.
11. B.Tech 2/4,EC-Sem-I, EE-1352 :Principle of Electrical Engineering and Measuring Instruments lab.
12. B.Tech 2/4 EC-Sem II:EE-403 -Electrical Machines.
13. Btech 4/4 EE-Sem-I:EE-808- Power System Operation and Control.
14. B.Tech 4/4,EE-Sem-I:EE-2222- Utilisation of Electrical Energy and Electric Traction.
15. B.Tech 2/4-ME,Sem-I, Basic Electrical and Electronics.

### **Workshop/FDP/Short term courses:**

1. Coordinator of Summer Internship Program in Electrical Engineering-2016 from 21-06-2016 to 16-07-2016.
2. Co-Coordinator of Summer Internship Program in Electrical Engineering-2017 from 19-06-2017 to 14-07-2017
3. Co-Convener of Summer Internship Program in Electrical Engineering-2018 from 11-06-2018 to 06-07-2018.
4. Convener of Advances in Power Technologies-2018 from 10-09-2018 to 14-09-2018.

### **B.Tech Projects:**

1. May-June 2019- PV Cell Operated Battery Electric Vehicles.
2. May-June 2018- Buck-Boost-Fly-Back Integrated Converter with Single Switch to Achieve High Voltage Gain for PV or Fuel- Cell Applications.
3. May-June 2017- Coupled Inductor Boost Integrated Fly back Converter with High Voltage Gain and Ripple Free Input Current.
4. May-June 2017- Design and Analysis of a High gain Multi Device Boost Converter with Soft Switching Capability for Renewable Energy Applications.
5. May-June 2015 - DC-DC Converters for Ripple Current Reduction in Fuel cell Power Systems.
6. May-June 2014- Modelling of High Voltage Ratio DC-DC Converter for Fuel Cell Application.

### **M.Tech Projects :**

1. High Gain Transformer-less DC-DC Converter for DC Microgrid.(Mr.Guguloth Nagesh- 2018PE19) M.Tech PE&D.
2. Two Switch Non Inverting Buck-Boost Converter With MPPT For PV System(Mr.Sunny Kumar Gupta- 2018PE17) M.Tech PE&D.
3. A buck boost converter as power factor correction controller for electrical vehicle using KY converter.(Mr.Kumar Pankaj- 2018PE14) M.Tech PE&D.

4. Design, Investigation and Control of Step-Up Multi Input DC-DC converter for Hybrid Electric Vehicle Application (Mr.Munna Lal -02016EE12) M.Tech PE&D.
5. Analysis, Design and Control of Switched Inductor - Capacitor High Step Up DC-DC Converter (Mr.Ajay Pal Singh-2016EE13) M.Tech PE&D.
6. Modified KY3+2D Converter with reduced input current Ripple and increased output voltage (Mr.Sanjeev Kumar -2015PE13) M.Tech PE&D.
7. Comparative analysis of magnetically coupled dc-dc converter for fuel cell low and high power applications (Mr.Ashish Kumar -2014PE08) M.Tech PE&D.
8. Modelling and analysis of ripple current reduction methods for fuel cell Based Power systems (Mr.Satish Kumar Singh-2013PE06) M.Tech PE&D.
9. Modular Fuel cell and Modular DC-DC Converter for fuel cell power systems(Mr.Amar Singh Patel - 2013PE32) M.Tech PE&D.
10. Cyclo-converter based Micro turbine generating systems and its analysis.( Mr.Manoj Kumar -2013PE23) M.Tech PE&D.
11. Simulation and Analysis of Micro turbine Generating Systems with AC-DC-AC Converter.( Mr.Ankith Singh -2013PE29) M.Tech PE&D.
12. Power Electronics Interfacing in Micro turbine Generating Systems and its issues. (Mr.Sudhesh Kumar Jaiswal -2012PE31) M.Tech PE&D.

### List of Journal Publications :

S.No	Authors	Title	Vol
1.	M. Venkatesh Naik, P. Samuel.	Analysis of ripple current, power losses and high efficiency of DC-DC converters for fuel cell power generating systems.	<i>Renew. &amp; Sustain. Energy Revivis</i> vol. 59, p. 1080-1088, June. 2016.
2.	M.Venkatesh Naik, P. Samuel.	Analytical Comparison between Single and Modular Fuel Cell Stack: Uniform Modular Cell Approach.	<i>International Journal of Advances in Applied Sciences</i> , Vol. 6, No.1, March 2017, pp. 96~104.
3.	M.Venkatesh Naik, P. Samuel.	A High Efficiency Non-Inverting Multi Device Buck-Boost DC-DC Converter with reduced Ripple Current and Wide Bandwidth for Fuel Cell Low Voltage Applications.	<i>Serbian Journal of Electrical Engineering (Scopus)</i> , Vol 15 No.2 –pp 165-186 June 2018.
4.	M.Venkatesh Naik.	Comparative Analysis of Non-Inverting Buck Boost Converter Topologies for Fuel Cell Low Voltage Applications.	<i>International Journal of Power Electronics, Inderscience Publications</i> . Vol. 12, No. 1, pp-111 to 133, May 2020

## List of Conference Proceedings:

S.No	Authors	Title	Conference and Year
1.	M. Venkatesh Naik, P. Samuel.	Design and analysis of ripple current reduction in fuel cell generating systems.	<i>2015 IEEE International Conference on Power and Advanced Control Engineering</i> , Bengaluru, India, Aug. 2015, pp. 200–204.
2.	M.Venkatesh Naik, P. Samuel.	Effect of Duty Ratio on Fuel Cell Ripple Current, Power Losses and Converter Efficiency.	The 9th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2017(APPEEC-2017), 2017.

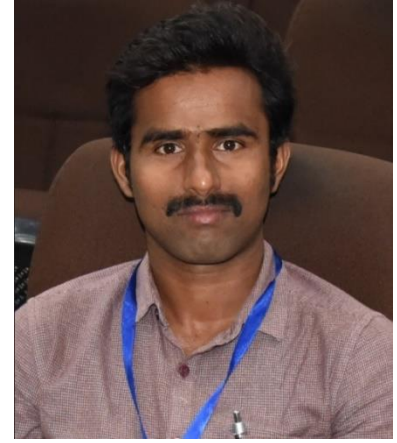
## Additional Responsibilities:

1. Faculty In charge, Institute and Industry Relations 2017-2018.
2. Faculty In charge, Departmental Library 2017-2018.
3. Warden MNNIT Hostels- 2012-2014.
4. Faculty In charge, Sports Skating-2018 jan to till date
5. Faculty In charge High voltage Engineering Lab- 2019 Jan to till date

## Short Bio

### **Dr.M.Venakatesh Naik**

Dr.M.Venakatesh Naik obtained his SSC in 2002 and received Diploma in Electrical Engineering from the institute Govt., Polytechnic Anantapur in 2005. He has obtained B.Tech degree in Electrical Engineering from the institute G.Pulla Reddy Engineering College, Kurnool, Andhra Pradesh, India in 2008, his M.Tech degree from the National Institute of Technology Trichy, India in 2010 and his Ph.D degree in Electrical Engineering from the Motilal Nehru National Institute of Technology Allahabad, India in 2017.



In December 2010, he joined the Department of Electrical Engineering, NIT Warangal, India as a guest faculty and in January 2011, he joined the Department of Electrical Engineering, NIT Goa, India as a contract faculty. In November 2012, he joined the Department of Electrical Engineering, MNNIT Allahabad, India as an Assistant Professor. Presently he is at AGP 8000 since 2019 July.

He has guided 12 M.Tech theses, 8 B.Tech Projects and published several publications in international research journals/ conferences. His research interests include power converter topologies for renewable energy (solar, fuel cell, wind and micro turbine), fuel cell power converter topologies, DC-DC converters, electrical energy storage technologies for electric vehicles, power converters for electric vehicles, charging stations for electric vehicles, superfast charging topologies, and electrical drives for electric vehicles.

Apart from academics and technical studies, he is also interested in human life sciences and delivered several lectures on health management for institute faculties and students. He has been a strict follower of Naturopathy since March, 2015 onwards. He has overall 5 years of experience in good health management and never visited any hospital or doctor and not consumed a single medicine in the span of 5 years. His areas of interest in health are blood pressure and diabetes management, stress relieving techniques, best asanas for brain development, efficient working with human body, design of healthy foods (No salt, oil, masala) etc. He has motivated and changed the life style of more than 50 individuals residing at various places of India. He is a master in celibacy and has invented several techniques to maintain celibacy for longest possible time. He has motivated and changed the life styles of more than 10 students of his own institute and other institutes.