



**Electrical Engineering Department**  
**Motilal Nehru National Institute of Technology**  
**Allahabad**  
Allahabad-211004 (India)

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**CV**

1. **Name:** Dr. M.VenkateshNaik
2. **Designation & Department:** Assistant Professor, Department of Electrical Engg.
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5. **Subjects of Interests/Specialization:** Power systems and application of Power electronics in power systems.

**AREA OF INTEREST:**

Power Electronics  
Electrical Machines  
Renewable Energy  
Power Management Systems  
DC-DC Converters for Renewable Energy  
Electric Vehicles  
Hybrid Electric Vehicle Technologies

**Message:**

“Be unselfish and be satisfied hundred per cent”

“A strong and clear mind’ is possible by following natural life style (NLS)”

“Follow NLS and be away from diseases”

“Superior medicines for all diseases: Good Habits: Foundation for all diseases: Bad Habits”

“Healthy teacher, Healthy student, Healthy Politics = Healthy INDIA”

**COURSES TAUGHT AND DEVELOPED:**

Post graduate Level

1. FACTS
2. Electric Traction and Vehicles
3. Advanced Power Electronics Lab

Under graduate level

1. Electrical Machines
2. Power System Operation and Control
3. Utilisation of Electrical Energy and Electric Traction
4. Basic Electrical and Electronics
5. Principles of Electrical Engineering and Measuring Instruments

6. Power plant engineering
7. Power system-1 laboratory
8. Electrical Machines-1 lab
9. Power systems-II lab
10. Advanced power systems lab
11. Electrical Measurements and Measuring instruments lab
12. Principle of electrical engineering and measuring instruments lab

### **Syllabus developed**

1. Principle of Electrical Engineering and Measuring Instruments lab
2. Electric Traction and Vehicles

## **RESEARCH SUPERVISION**

### ***Masters Completed***

1. "Investigation on Power Electronic Interfacing of Micro turbine generating Systems and its Issues" By Sudhesh Kumar Jaiswal (June 2014), Supervised by Dr.M.VenkateshNaik
2. "Analysis of Micro turbine Generation Systems with AC –DC-AC Converter" By Ankit Singh (June 2014), Supervised by Dr.M.VenkateshNaik
3. "Investigation on Cycloconverter based micro turbine generation system " By Manoj Kumar (June 2014), Supervised by Dr.M.VenkateshNaik
4. "Modelling and Analysis of ripple current reduction methods for fuel cell connected systems" By Satish Kumar Singh (June 2015) Supervised by Dr.M.VenkateshNaik
5. " Analysis and control of PWM controlled full bridge dc-dc converter based fuel cell energy conversion system" By Amar Singh Patel (June 2015) Supervised by Dr.M.VenkateshNaik
6. "Design and development of modified KY 3+2D Converter with reduced input current ripple and increased output voltage" By Sanjeev Kumar (July 2016), Supervised by Dr.M.VenkateshNaik
7. "Comparative analysis of magnetically coupled DC-DC converter topologies for fuel cell low and high power applications "byAshish Kumar(july 2016) Supervised by Dr.M.VenkateshNaik

### ***Under graduate Completed***

1. "Design and Investigations on DC-DC Converters for Ripple Reduction in Fuel Cell Power Systems" By Shreya Seth, Manoj Singh ,Mantoo Kumar, Naznin Ferdous(June 2014)Supervised by Dr.M.VenkateshNaik
2. "Investigations on buck boost converter for fuel cell low voltage applications" by Shreya Yadav,Ayush Kumar, Shamshad Alam (June 2015)Supervised by Dr.M.VenkateshNaik
3. "Analysis of Coupled inductor boost integrated fly-back converter with high voltage gain and ripple free input current"byUtkarshShukla ,Shubham Gupta, SaurabhBhambu, VipinKumar(June 2016) Supervised by Dr.M.VenkateshNaik.
4. "Design and Analysis of Non isolated high gain multi device boost converter using voltage stacking cells" By Gaurav Sharma, AbhishekAgarwal, Hare KirshnaKhuswaha, Suraj Kumar (June 2016) ) Supervised by Dr.M.VenkateshNaik.

### ***Courses Organised***

1. Acted as organising Secretary for a short term course on Advances in Power Electronics and Renewable Energy Resources -2017 held at MNNIT Allahabad from July 19-22, 2017.

### ***Courses Attended***

1. Attended a one week short term course on Advances in Power Technologies APT-2017 held at MNNIT Allahabad from 15 th -20 th May ,2017
2. Attended a 3 day short term course on Advances in Power Electronics and Renewable Energy Resources –APERER-2017 held at MNNIT Allahabad from July 19-22,2017

## **Research Publications**

- [1] **M.VenkateshNaik**, Paulson Samuel, “Analysis of Ripple Current, Power Losses and High Efficiency of DC-DC Converters for Fuel Cell Power Generating Systems,” *Renewable and sustainable reviews*,59, (2016), 1080-1088.
- [2] **M.VenkateshNaik**, Paulson Samuel, “Design and Analysis of Ripple Current Reduction in Fuel Cell Generating Systems,” *International Conference on Power and Advanced Control Engineering (ICPACE)*, 2015, 200-204.