

## ***Er. Nikhil Agrawal***

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### **EDUCATIONAL QUALIFICATIONS:**

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- **M. E. (Industrial System & Drives)**  
Madhav Institute of Technology & Science, Gwalior (M.P.), 2017
- **B.E. (Electrical Engineering)**  
Babu Banarasi Das National Institute of Technology and Management, Lucknow (U.P.), 2014.

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### **ACADEMIC EXPERIENCE:**

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***August'18 till Date:*** Assistant Professor, Department of Electrical Engineering, **S. R. Group of Institutions, Jhansi (U.P.), India**

***July'17 to June'18:*** Lecturer, Department of Electrical Engineering, **Ujjain Engineering College, Ujjain (Formerly Govt. Engineering College Ujjain), (M.P.), India.**

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### **PUBLICATIONS:**

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#### **International Journals:**

1. **Nikhil Agrawal, Praveen Bansal; "Analysis of new 7- Level an Asymmetrical Multilevel Inverter Topology with Reduced Switching Devices"**, in International Journal of Science, Engineering and Technology Research (IJSETR)-Volume 6,issue 6, 2017 E-ISSN: 2278-7798.
2. **Nikhil Agrawal, V K Singh, Anurag Saxena: "A Single phase level shifted PWM Asymmetrical Multilevel Inverter for 7- Level"**, in SSRN Elsevier Digital Library- 2020.

#### **International Conferences:**

1. **Nikhil Agrawal, Praveen Bansal; "A Multilevel Inverter Topology Using Reverse-Connected Voltage Sources"**, in ICECDS 2017 IEEE conference; 1-2 August 2017 at Poonamalli, Chennai-Tamilnadu.
2. **Nikhil Agrawal, Sandeep Singh Tomar, Praveen Bansal; "Various Modulation Techniques in multilevel inverter"**, in ICECDS 2017 IEEE conference; 1-2 August 2017 at Poonamalli, Chennai-Tamilnadu.

3. **Nikhil Agrawal, Praveen Bansal; "A new 21-Asymmetrical multilevel inverter topology with different modulation techniques"**, in RDCAPE 2017 IEEE conference; 26-27 October 2017 at Amity University, Noida U.P.
4. **Nikhil Agrawal, Praveen Bansal and Niraj Umale, "THD Analysis of New Multilevel Inverter Topology with Different Modulation Techniques"** in International Conference on Intelligent Computing and Smart Communication 2019 (ICSC 2019) Springer conference; 19-21 April 2019 at THDC Tahri Uttarakhand.
5. **Nikhil Agrawal et.al, "A Single Phase Level Shifted PWM Asymmetrical Multilevel Inverter for 7- Level"** in International Conference on Advance In Electronics, Electrical & Computational Intelligence (ICAEEC-2019) Springer Conference; 31<sup>St</sup> May 2019 at IIT Allahabad.

#### **National Conferences:**

1. **Nikhil Agrawal, Praveen Bansal; "A Multilevel Inverter Topologies Using Reverse Connected Voltage Sources"**, in 5<sup>th</sup> National Conference on Innovation in Electrical Engineering (IEEE 17) under TEQIP-II, MITS, Gwalior- Feb 14, 2017.
2. **Nikhil Agrawal, Prashant Kushwaha and Anchal Verma; "A Review on Cascade H-Bridge Multilevel Inverter"**, in National Conference on Recent Trends in Electrical, Electronics & Communication Engineering (RTEECE-19) at BIET Jhansi.

#### **Book Chapter:**

1. **Nikhil Agrawal; "Performance Analysis of Cascade H- Bridge Multilevel Inverter Topology with Filter Circuit and Without Filter Circuit"** in Design and Optimization of Sensors and Antennas for Wearable Devices-IGI Global (USA), DOI- 10.4018/978-1-5225-9683-7.ch008, Print ISSN No. – 9781522596851.
2. **Nikhil Agrawal, Shubham Kumar Gupta; "A New Single-Phase Symmetrical Multilevel Inverter Topology with Pulse Width Modulation Techniques"** in cognitive Informatics and soft Computing , DOI- 10.1007/978-981-15-1451-7\_62.

#### **PROFESSIONAL ACTIVITIES:**

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- **Volunteer** in 3<sup>rd</sup> National conference on Innovation in Electrical Engineering (IEEE-2017) under TEQIP-II at MITS, Gwalior.
- **Reviewer** for International Conference ICSC-2019 and ICAEEC-19.
- **Reviewer** of 'Advance in science, Technology and Engineering Systems Journal (ASTESJ)'.
- **Guided** 10 B.Tech students.
- **Counsellor** in College Admission Team at S.R.G.I. in 2019.
- **College Bus In charge** at SRGI Jhansi from Sep 2018 to till now.

**AWARDS:**

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- Received MHRD scholarship for M.E.
- Awarded with MITS Gold Medal- 2017 for securing first Position in M.E. (ISD).
- Awarded with Teacher Innovation Award by Sri Aurobindo Society.