

## CURRICULUM-VITAE



**Name:** Prof. (Dr.) Vinod Kumar Giri  
(Designation: Professor, Since, 01<sup>st</sup> January 2008)

**Father's Name:** Late Sri Gorakh Nath Giri

**Date of birth:** 13<sup>th</sup> October, 1964

**Communication Address:** Dr. V. K. Giri  
Professor, Electrical engineering Department  
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**E-Mail Address:** [girivkmmm@gmail.com](mailto:girivkmmm@gmail.com),

**Academic Qualification:** B.E. (SVNIT, Surat), M.E. (UOR, Roorkee), Ph.D. (IIT, Roorkee).

**Nationality:** Indian

**Marital Status:** Married

**Administrative Assignments:** **Director**, Rajkiya Engineering College, Churk, Sonbhadra, UP.  
(Successfully completed one tenure of 03 years from 1<sup>st</sup> October 2016 to 30<sup>th</sup> September 2019).  
*and*  
**Nodal Officer**, Government Engineering College, Mirzapur. UP.  
(September 2017 to January 2020).

**Teaching & Research Experience** **31 years**

- SVNIT, Surat.
- M.M.M. University of Technology (M.M.M. Engineering College), Gorakhpur (UP), India.
- University of Roorkee (UOR), Roorkee
- Indian Institute of Technology Roorkee, Roorkee.

### Professional experience (in chronological order):

Post (Duration)	Institute/University
Adhoc Lecturer (For one semester in 1989)	Electrical Engineering Department, SVRCET, Surat (Presently SVNIT, Surat)
Adhoc Lecturer (from 31.07.1989 to 14.09.1989)	Electrical Engineering Department, M.M.M. Engineering College, Gorakhpur
Lecturer [Permanent] (from 15.09.1989 to 31.12.1995)	Electrical Engineering Department M.M.M. Engineering College, Gorakhpur
Lecturer [Senior Scale] (from 01.01.1996 to 31.12.1999)	Electrical Engineering Department, M.M.M. Engineering College, Gorakhpur
Assistant Professor (from 01.01.2000 to 31.12.2007)	Electrical Engineering Department, M.M.M. Engineering College, Gorakhpur
Professor (from 01.01.2008 to 30.11.2013)	Electrical Engineering Department, M.M.M. Engineering College, Gorakhpur
Professor (from 01.12.2013 to 30.09.2016)	Electrical Engineering Department, M.M.M. University of Technology, Gorakhpur
Founder Director (from 01.10.2016 to 30.09.2019)	Rajkiya Engineering College, Sonbhadra
Professor (from 01.10.2019 to till date)	Electrical Engineering Department, M.M.M. University of Technology, Gorakhpur

### Research Activities:

Sr. No.	Project	Funded by	Duration
1.	Indigenous ECG database creation signal analysis and disease diagnosis using recent DSP Techniques	UGC, Government of India	Three Years
2.	Investigations on PWM Rectifier	UGC, Government of India	Three Years

### Thesis/Dissertation/Project Guided:

- **Ph.D. Thesis:** 03 Awarded & 04 Perusing
- **M. Tech. Dissertations:** Guided 24
- **B. Tech Projects:** Guided approximately 45

### Details of Ph.D. Research Students:

S. No.	Name of Student	Topic of Thesis	Current Status
1.	Khadim Moin Siddique	Health Monitoring Fault Diagnosis of Induction Motor Using Transformative Techniques	<b>Awarded</b>
2.	Raj Kumar Patel	Development of Feature Extraction & Classification Algorithms for Health Monitoring of Induction Machine	<b>Awarded</b>
3.	Sudhir Agarwal	Development of Health Monitoring of Induction Machine Using Computational Intelligence.	<b>Awarded</b>
4.	Rajiv Ranjan	ECG Signal Analysis Using Advance DSP Techniques: Adaptive Wavelet Neural Network	Submitted <i>Under Evaluation</i>
5.	Desh Deepak Gautam	Prediction of Arrhythmias using Linear and Non-linear Analysis of HRV	Pursuing
6.	Rachit Srivastava	Performance Evaluation of Grid Connected PV System	Pursuing
7.	Bipin Singh	Power Quality Improvement in Three-Phase Two Stage Grid Interface for Solar PV System	Pursuing

### Achievements:

#### ➤ Award & Honors:

- Ñ Received the prestigious “**The Corps of Engineers Prize**” award for the best paper of the year 2007-08 at NIT Warangal on 12<sup>th</sup> December 2008 in the Inauguration session of 23<sup>rd</sup> Indian Engineering Congress of IEI.
- Ñ Editorial Board Member as well as reviewer for Journal on Electrical Engineering for the year 2017-2018 and 2018-2019.
- Ñ Co-Ordinator of the center M.M.M.U.T. Gorakhpur for creating an ECG database (Indigenous) with Principal Coordinator Prof. Vinod Kumar, Electrical Engineering Department, Indian Institute of Technology Roorkee

#### ➤ Memberships:

- Ñ Fellow member, Institution of Electronics and Telecommunication Engineers (IETE) (F-216321),
- Ñ Fellow member, Institution of Engineers (India) (F-1138274),
- Ñ Life member, Indian Society for Technical Education (ISTE)
- Ñ Member, Computer Society of India (CSI),
- Ñ Member, Continuing Education Centre.

#### ➤ Membership of Apex Bodies of Outside Institutions/Organizations:

- Ñ Member, Board of Governors, MMMEC, Gorakhpur.
- Ñ Member, Finance Committee, REC, Ambedkar Nagar.
- Ñ Member, Board of Studies, HBTI, Kanpur.

- Ñ Member, Board of Studies, GBTU, Lucknow
- Ñ Member of Flying squad for UPTU Exam 2003-04.
- Ñ Government Nominee in Selection Committees for different Universities.

➤ **Administrative Experiences:**

- Ñ **Founder Director, REC, Sonbhadra.**
- Ñ **Nodal Officer, Govt. Engineering College, Mirzapur.**
- Ñ **Dean, Planning, Resource Generation & Alumni Relations, MMMUT, Gorakhpur**
- Ñ **Controller of Examination, MMMUT, Gorakhpur**
- Ñ **Dean, Student's Affairs, MMMUT, Gorakhpur**
- Ñ **Head Department of Electrical Engineering, MMMUT, Gorakhpur**
- Ñ **Chief Proctor, MMMUT, Gorakhpur**
- Ñ **Professor in charge Library, MMMUT, Gorakhpur (Successfully Completed Library Automation Work)**
- Ñ **Procurement officer, MMMUT, Gorakhpur (For the Procurement of goods under TEQIP phase I).**
- Ñ **Chief Hostel Warden (Implemented many new reforms in hostel's mess /administration)**
- Ñ **President, Sports, Games & Cultural Activities, MMMUT, Gorakhpur**
- Ñ **Vice- President, Sports Games & Cultural Activities, MMMUT, Gorakhpur**
- Ñ **Warden, Raman Bhawan & Tagore Bhawan, MMMUT, Gorakhpur.**
- Ñ **Officer in charge Electrical Maintenance Section, MMMUT, Gorakhpur**
- Ñ **Chairman/Member of University disciplinary committee**
- Ñ **Chairman/Member of different enquiry committee.**
- Ñ **Testing of Electrical Measuring Instruments for different industries/organization**
- Ñ **Counselor during admission for UPSEE.**
- Ñ **Group Leader of Flying squad for UPTU, Lucknow**

➤ **Achievements during as an Ex-Director (01.10.2016 to 30.09.2019):**

- Ñ The biggest challenge to make the college functional from its own campus was the **“Drinking Water Issue”**. No water was available nearby or within the campus. After many attempts and with the proactive role of administration & agency the water is being carried out from two different villages through pipeline which is 7 & 5 Km away from the campus. In spite of all the odds, ensuring the drinking water supply in the campus by resolving the socio-economical problem tactfully may be treated as most important achievement.
- Ñ Established well-equipped Labs & Library, monitored the construction of two academic buildings & workshop, administrative building, two boy's hostel, one girl's hostel and a modern student activity center (SAC) with open air lobby (with sitting capacity of 800 students), Bank with ATM, Canteen and stationary store facility inside the campus, ensured roster free 24 x 7 electricity supply and finally shifted REC, Sonbhadra which were running in the campus of KNIT Sultanpur since 2015 to its own campus in July 2017.

- Ñ REC, Sonbhadra has got AICTE APPROVAL in April 2019.
- Ñ Received Rs 10.00 Crores by State Govt. under Deen Dayal Upadhyay Quality Improvement Program (DDUQIP)
- Ñ Successfully completed the selection process of 03 Associate Professors & 26 Assistant Professors against the sectioned regular faculty positions in 2017.
- Ñ Two faculties have got their project sectioned by AKTU. The college has been recognized as of the research Centre by AKTU & two (02) students has joined as research cum teaching fellow.
- Ñ Teachers have been sent to different leading institution for training, FDPs, to present their research work, deliver expert lectures. Students of the college have also participated in different cultural, sports, exhibitions tech feast and won several prizes.
- Ñ Successfully organised Two (02) FDPs; (PSOC-2019, RTVRWC- 2019) and one International Conference (ICCAEEE-2019) during 30-31<sup>st</sup> August, 2019.
- Ñ Adapted two (02) Primary Pathashala situated nearby the college premises and giving them free coaching & counseled them for bright carrier as a part of **community service**. Team “Ummeed” also conduct awareness programme regarding “Clean India Campaign”, Water Harvesting/Conservation Drive” through different activities throughout the year.

➤ **Conferences / Seminar Chaired and Organized:**

- Ñ Co-convener of the National Workshop organized by Electrical Engineering department M.M.M. Engineering College, Gorakhpur “Advances in Power Electronics & Drives” 18<sup>th</sup> -19<sup>th</sup> March 2006.
- Ñ An active member of organizing committee of National Conference on Recent Advances in Electrical Power and Energy, Department of Electrical Engineering, M.M.M. Engineering College, Gorakhpur, RAEPESM-2011, March 25-26, 2011.
- Ñ Convener of the workshop entitled “Awareness about Recent Advancement in Electrical, Electronics Labs and Softwares for Technical Supporting Staff”, during 13<sup>th</sup> - 15<sup>th</sup> February 2012, organized by the Department of Electrical Engineering, at M.M.M. Engineering College, Gorakhpur.
- Ñ Organizing committee member of the conference on “Recent advances in Database Systems and Applications” at CSED, MMMEC, Gorakhpur, 4<sup>th</sup>-5<sup>th</sup>May, 2013.
- Ñ Chairman of the National Conference on Emerging Trends in Electrical Systems (ETES-14), Sponsored under TEQIP-II, organized by the Department of Electrical Engineering, MMMUT, Gorakhpur, 28-29<sup>th</sup>, March-2014.
- Ñ Chairman of one-day workshop on “Curriculum Development”, Sponsored under TEQIP-II, organized by the Department of Electrical Engineering, MMMUT, Gorakhpur, 1<sup>st</sup>December, 2014.
- Ñ Chairman of the National Conference on “Recent Advances in Electrical Engineering (RAEE-2015)” Sponsored under TEQIP-II, organized by the Department of Electrical Engineering, MMMUT, Gorakhpur, 25-26, April 2015.
- Ñ Chaired technical session of the RAEPESM-2011, MMMEC, Gorakhpur.
- Ñ Chaired technical session of the ETEEE-2011, KNIT, Sultanpur.
- Ñ Chaired technical session IEEE International Conference, ICETEESSES-16 (11-12, March 2016), KNIT, Sultanpur.
- Ñ Chaired technical session of the ICE3-2020, MMMUT, Gorakhpur.

➤ **Expert Talks:**

- Ñ Delivered expert lectures in AICTE-ISTE sponsored STC “Telemedicine: Information Technology in Bio-medical Engineering” at SLIET, Longowal, between 23<sup>rd</sup> December, 2002 to 3<sup>rd</sup> January, 2003.
- Ñ Delivered expert lectures in AICTE sponsored Staff Development Program “Application of Artificial Intelligence in Bio- Medical Engineering” at MITS, Gwalior, between 15<sup>th</sup> to 28<sup>th</sup> December, 2007.
- Ñ Delivered plenary talk in the national conference on “Recent advances in Database Systems and Applications” at MMMEC, organized by CSED between 04<sup>th</sup> -05<sup>th</sup> May, 2013.
- Ñ Delivered expert Lecture in TEQIP sponsored Faculty Development Programme (FDP) on “Recent advances in Electrical Engineering” at EED, HBTI, Kanpur, between 03<sup>rd</sup> -08<sup>th</sup> June, 2013.
- Ñ Delivered expert Lecture in DBIET, Dehradun, April, 2014.
- Ñ Delivered expert Lecture in IMS, Ghaziabad, September, 2014.
- Ñ Delivered expert Lecture in REC, Ambedkar Nagar, April, 2017.

➤ **Courses Taught:**

Ñ Basic Electrical Engineering	UG (First year)
Ñ Electrical Engineering	UG (First year)
Ñ Electrical Measurement & Measuring Instruments	UG (Second Year)
Ñ Electrical Instrumentation & Process Control	UG (Third Year)
Ñ High Voltage Engineering	UG (Fourth Year)
Ñ Switch Gear & Protection	UG (Fourth Year)
Ñ Utilization & Traction	UG (Fourth Year)
Ñ Bio - Instrumentation	UG/PG
Ñ Advanced Measurement & Instrumentation	PG

➤ **Assignments of other Universities:**

- Ñ Reviewed many papers for different journals/conferences.
- Ñ Evaluated project of Council of Science & Technology, Lucknow
- Ñ Evaluated & conducted several M. Tech. Viva-Voce for different Colleges/Universities.
- Ñ Head Examiner for UPTU Exams.
- Ñ Practical/Project Examiner for different Universities/Institutes
- Ñ Appointed as external examiner to examine Ph.D. thesis by honorable Vice-Chancellor of Swami Ramanand Teerth Marathwada University, at SGGGS Institute of Engg. and Tech., Vishnupuri, Nanded (MS).
- Ñ Appointed as external examiner to examine Ph.D. thesis by honorable Vice-Chancellor of, Centre for Research, Anna University, Chennai 600 025.
- Ñ Appointed as external examiner to examine Ph.D. thesis by honorable Vice-Chancellor of, Punjab University, and Chandigarh-160014.



## Publications:

### ➤ Books:

- “Diagnosis of Broken Rotor Bar in Inverter Fed Induction Motor Drives” Lambert Academic Publishing, 2015. [ISBN 978-3-659-77100-2]
- “Health Monitoring of Induction Motor Using DSP Techniques” Lambert Academic Publishing, 2018. [ISBN 978-6-139-83951-3]
- “Computing Algorithms with Applications in Engineering”, Springer Singapore, 2020 [ISBN 978-981-15-2368-7]

### ➤ International /National Journals:

1. Saxena, S. C., Kumar, V., & Giri, V. K. (2003). Telecardiology for effective healthcare services. *Journal of Medical Engineering & Technology*, 27(4), 149–159. <http://doi.org/10.1080/0309190031000087298> (SCI)
2. Kumar, V., Saxena, S. C., Giri, V. K., & Singh, D. (2005). Improved modified AZTEC technique for ECG data compression: Effect of length of parabolic filter on reconstructed signal. *Computers and Electrical Engineering*, 31(4-5), 334–344. <http://doi.org/10.1016/j.compeleceng.2005.02.002> (SCI)
3. Kumar, V., Saxena, S. C., & Giri, V. K. (2006). Direct data compression of ECG signal for telemedicine. *International journal of systems science*, 37(1), 45-63. <http://doi.org/10.1080/00319100500412337> (SCI)
4. Saxena, S. C., Kumar, V., & Giri, V. K. (2003). Quality Assurance in Cardiac Disease Diagnostic using Computerized Feature Extraction of ECG Signal. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, 20(4), 377–386. <http://doi.org/10.1080/02564602.2003.11417095> (SCI)
5. Saxena, S. C., Kumar, V., & Giri, V. K. (2003). ECG data compression using EBP-NN. *IETE Technical Review*, 20(6), 583–604. <http://doi.org/10.1080/02564602.2003.11417118> (SCI)
6. Kumar, V., Giri, V. K., & Saxena, S. C. (2006). Telemedicine in context to Indian health scenario. *Journal of the Institution of Engineers (I) CP*, 87, 38-45. (SCOPUS)
7. Saxena, S. C., Kumar, V., & Giri, V. K. (2007). Non-Arrhythmic ECG Data Compression Using EBP-NN and Feature Extraction Using Wavelet Transform. *Journal of the Institution of Engineers (I)*, 88, 39-48. **(The Corps of Engineers Prize for session 2007-08, Best Paper Award in 23<sup>rd</sup> Indian Engineering Congress at NIT Warangal on 12<sup>th</sup> December 2008).** (SCOPUS)
8. Mohan C, and & Giri, V. K. (2011). DC Motor Control using EMG Signal for Prosthesis. *International Journal of Electronics and Comm. Technology (IJECT)*, 2(2), 163-166.
9. Chowdhary, A. S. & Giri, V. K. (2011). Electronic Modelling of Neuromorphic Retina, *International Journal of Multidisciplinary Research and Advance Engineering, (IJMRAE)*, 3(4), 93-108.
10. Chowdhary, A. S. & Giri, V. K. (2011). Mixing Biology and Electronics to Create Vision Chips, *International Journal of Engineering Research and Industrial Applications, (IJERIA)*, 4(4), 295-310.
11. Singh, A. P. & Giri, V. K. (2011). Mitigation Method of Harmonics Using Multiband Shunt Hybrid Active Filter, *Global Journal of Computer Application and Technology (GJCAT)*, 1(4), 614-616.

12. Siddiqui, K. M. & Giri, V. K. (2011). Broken Rotor Bar Fault Detection in Induction Motors using Transient Current Analysis, *International Journal of Electronics and Communication Technology (IJECT)*, 2(4), 114-119.
13. Siddiqui, K. M. & Giri, V. K. (2012). Fault Diagnosis and Condition Monitoring of Induction Motor Using Wavelet Transform, *International Journal of Multidisciplinary Research and Advance Engineering, (IJMRAE)*, 4(1), 479-496.
14. Siddiqui, K. M. & Giri, V. K. (2012). Modelling and Detection of Rotor Broken Bar Fault using Induction Motor Fed PWM Inverter, *International Journal of Computer Science and Technology (IJCST)*, 3(1), 353-358.
15. Ranjan, R. & Giri, V. K. (2012). A Unified Approach of ECG Signal Analysis, *International Journal of Soft Computing and Engineering (IJSCE)*, 2(3), 5-10.
16. Ranjan, R. & Giri, V. K. (2012). Electric Power Quality Monitoring and Analysis Using Wavelet Transform, *International Journal of Engineering Science and Management*, 2(2), 1-5.
17. Singh, A. R. & Giri, V. K. (2012). Design and Analysis of DC Motor Speed Control by GA Based Tuning of Fuzzy Logic Controller, *International Journal Engineering and Research Technology (IJERT)*, 2 (5), 1-5.
18. Singh, A. R. & Giri, V. K. (2012). Compare and Simulation of Speed Control of DC Motor Using PID and Fuzzy Controller, *International Journal VSRD*, 2, 1-5.
19. Ranjan, R. & Giri, V. K. (2013). Arrhythmic Signal Denoising Using Wavelet Thresholding Techniques, *International Journal of Electrical, Electronics & Communication Engineering*, 3(1), 9-13.
20. Chauhan, P. & Giri, V. K. (2013). Different Schemes of Matrix Converter with Maximum Voltage Conversion Ratio and Performance Analysis of Cycloconverter, *VRSD International Journal of Electrical, Electronics & Communication Engineering*, 3(2), 62-65.
21. Chauhan, P. & Giri, V. K. (2013). Power Electronics and Its Application to Renewable Energy in Japan, India and USA, *VRSD International Journal of Electrical, Electronics & Communication Engineering*, 3(4), 149-158.
22. Chauhan, P., Giri, V. K., Kushwaha, P. K. (2013). Development Milestones and Control Techniques for Forced Commutated Cycloconverter, *VRSD International Journal of Electrical, Electronics & Communication Engineering*, 3(4), 1-6.
23. Gautam, D. D. & Giri, V. K. (2013). Speed Control of Three Phase Induction Motor Using Single Phase Supply, *VRSD International Journal of Electrical, Electronics & Communication Engineering*, 3(7), 331-334.
24. Gautam, D. D. & Giri, V. K. (2013). Single Phase Supply Fed Three Phase Induction Motor Using SVPWM Inverter, *International Journal of Biological Sciences and Technological Research*, 1(4), 20-23.
25. Gautam, D. D. & Giri, V. K. (2013). Simulation and Comparison of SPWM and SVPWM Fed Three Phase Induction Motor, *International Journal of Biological Sciences and Technological Research*, 1(5), 6-9.
26. Singh, A. R. & Giri, V. K. (2013). Intelligent control of DC Motor using GA Based Hybrid Fuzzy Controller, *International Journal of Computer Science Information and Engineering Technology (IJCSIET)*, 1(3), 1-6.
27. Gautam, D. D. & Giri, V. K. (2013). Single Phase Supply Fed Three Phase Induction Motor Using SVPWM Inverter, *IJBSTR Research Paper*, 1(4), 20-23.
28. Ranjan, R. & Giri, V. K. (2013). ECG Signal Enhancement Using Wavelet Transform, *Journal of Engineering & Technology*, 1(2), 40-45.



29. Gautam, D. D. & Giri, V. K. (2013). Speed Control of Three Phase Induction Motor Using Single Phase Supply, *VSRD International Journal of Electrical, Electronics & Communication Engineering*, 3(7), 331-334.
30. Ranjan, R. & Giri, V. K. (2013). Application Adaptive Wavelet Transform for ECG Signal Enhancement, *International Journal of Engineering, Science and Management*, 3(2), 64-69.
31. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2014). Health Monitoring and Fault Diagnosis in Induction Motor- A Review, *IJAREEIE*, 3(1), 6549-6565.
32. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2014). Simulation and Transient Analysis of PWM Inverter Fed Squirrel Cage Induction Motor Drives, *i-manager's Journal on Electrical Engineering*, 7(3), 9-19.
33. Ranjan, R., Giri, V. K., Kumar, D. & Sharma, K. (2014). ECG Signal Analysis Using Adaptive Wavelet Neural Network, *International Journal of Engineering, Science and Management*, 4(1), 89-96.
34. Ranjan, R. & Giri, V. K. (2014). HHT Based Analysis and Classification of Cardiac Arrhythmias Using SVM, *Journal of Engineering & Technology*, 2(2), 1-6.
35. Patel, V. & Giri, V. K. (2014). Performance Analysis of SVPWM Inverter Fed Permanent Magnet Synchronous Motor, *International Journal of Computer & Mathematical Sciences (IJCMS)*, 3(5), 5-14.
36. Patel, V. & Giri, V. K. (2014). Field Oriented Control of Permanent Magnet Synchronous Motor using SVPWM Technique, *International Journal of Emerging Engineering Research and Technology (IJEERT)*, 2(3), 1-6.
37. Yadav, R. K. & Giri, V. K. (2014). Improvement of Transient Stability with SSSC Controller in a Three-Machine Power System for Three Phase Symmetrical Fault, *International Journal for Scientific Research & Development (IJSRD)*, 2(6), 479-483.
38. Yadav, R. K. & Giri, V. K. (2014). Improvement of Transient Stability with SSSC Controller in a Three-Machine Power System for Asymmetrical Fault, *International Journal of Engineering Sciences & Research Technology (IJESRT)*, 3(9), 1-6.
39. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2014). Performance and Analysis of Switching Function Based Voltage Source Inverter Fed Induction Motor, *International Electrical Engineering Journal (IEEJ)*, 5(9), 1545-1552.
40. Siddiqui, K. M. Giri, V. K. & Sahay, K. (2014). Modelling and Detection of Bearing Fault in PWM Inverter Fed Induction Motor Drives, *i-manager's Journal on Electrical Engineering*, 8(1), 11-24.
41. Tiwari, H., Patel, V. & Giri, V. K. (2015). Direct data compression techniques of ECG- An Overview, *i-manager's Journal on Digital Signal Processing*, 2(4), 19-29.
42. Rohila, A. & Giri, V. K. (2015). Application of Polynomial Approximation Techniques for Smoothing ECG signals, *i-manager's Journal on Digital Signal Processing*, 2(4), 8-13.
43. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2015). Performance and Analysis of Space Vector PWM Inverter Fed Squirrel Cage Induction Motor Drive, *Journal of Electrical Engineering*, 8(3), 18-30.
44. Siddiqui, K. M. Giri, V. K. & Sahay, K. (2015). Rotor Broken Bar Fault Detection in Induction Motor Using Transformative Techniques, *Journal of Electrical Engineering*, 15(1), 135-141. ([SCOPUS](#))
45. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2015). Bearing Fault Detection in PWM Inverter Fed Induction Motor Drives by Transformative Techniques, *i-manager Journal of Electrical Engineering*, 8(4), 7-18.

46. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2015). Performance and Analysis of Direct Torque Control Induction Motor FED PWM Inverter Drives, *International Electrical Engineering Journal (IEEJ)*, 6(1), 1716-1726.
47. Patel, R. K. & Giri, V. K. (2015). Induction Motor Bearing Fault Diagnosis Using Cascaded EMD and DWT Techniques, *International Journal of Applied Engineering Research*, 10(11), 28317-28330. ([SCOPUS](#))
48. Patel, R. K., Thapliyal, R. & Giri, V. K. (2015). Application of DWT and PDD for Bearing Fault Diagnosis Using Vibration Signal, *Journal of Electrical Engineering*, 15(4), 139-145.
49. Suman, S. K. & Giri, V. K. (2015). Investigation and Implementation of Speed Control of DC Motor, *Journal of Electrical Engineering*, 16(2), 139-145.
50. Pandey, V. & Giri, V. K. (2015). Removal of High Frequency Noise from The ECG Signal Using Averaging Filters, *i-manager Journal on Digital Signal Processing*, 3(3), 7-14.
51. Suman, S. K. & Giri, V. K. (2015). Genetic Algorithms: Basic Concepts and Real-World Applications,” *International Journal of Electrical, Electronics and Computer Systems (IJEECS)*, 3(12), 116-123
52. Patel, R. K. & Giri, V. K. (2016). Fault Classification of Induction Motor Bearing Using Statistical Features and Artificial Neural Network, *i-manager Journal of Electrical Engineering*, 9(2), 38-45.
53. Srivastava, R. & Giri, V. K. (2016). Optimization of Hybrid Renewable Resources using HOMER, *International Journal of Renewable Energy Research-IJRER*, 6(1), 1469-1475. ([SCI](#))
54. Srivastava, R. & Giri, V. K. (2016). Techno-Economical Analysis of Grid Connected PV System for A University in India, *International Journal of Renewable Energy Research-IJRER*, 6(2), 535-540. ([SCI](#))
55. Srivastava, R. & Giri, V. K. (2016). Design of Grid Connected PV System using PVsyst, *i-Manager's Journal on Electrical Engineering*, 10(1), 14-18.
56. Gautam, M. & Giri, V. K. (2016). Feature Extraction and Classification of ECG Signal Using Neuro-Wavelet Approach, *i-manager Digital Signal Processing*, 3(4), 1-5.
57. Gautam, M. & Giri, V. K. (2016). A Critical Review of Various Peak Detection Techniques of ECG Signals, *i-manager Digital Signal Processing*, 4(3), 27-36.
58. Patel, R. K. & Giri, V. K. (2016). ANN Based Performance Evaluation of BDI for Condition Monitoring of Induction Motor Bearings, *Journal of The Institution of Engineers (India): Series B*, [doi: 10.1007/s40031-016-0251-7](https://doi.org/10.1007/s40031-016-0251-7) ([SCOPUS](#))
59. Patel, R. K. & Giri, V. K. (2016). Feature Selection and Classification of Mechanical Fault of an Induction Motor Using Random Forest Classifier, *Perspective of Science*.8, 334-337, [doi:10.1016/j.pisc.2016.04.068](https://doi.org/10.1016/j.pisc.2016.04.068)
60. Siddiqui, K. M., Giri, V. K. & Sahay, K. (2016). Diagnosis of Airgap Eccentricity Fault in the Inverter Driven Induction Motor Drives by Transformative Techniques, *Perspective of Science*.8, 127-131. [doi:10.1016/j.pisc.2016.04.014](https://doi.org/10.1016/j.pisc.2016.04.014)
61. Patel, R. K. & Giri, V. K. (2016). Analysis and Interpretation of Bearing Vibration Data Using Principal Component Analysis and Self Organizing Map, *International Journal of Advanced Design and Manufacturing Technology*, 9(1), 129-135.
62. Suman, S. K. & Giri, V. K. (2016). Implementation of optimization and intelligent techniques for Speed Control of DC Motor-A Review, *International Karpagam Journal of Engineering Research (KJER)*, 5(1), 14-21.

63. Suman, S. K. & Giri, V. K. (2016). "Forecast and Explication of ECG Signal on Goings Using Soft Computing Techniques," *International i-manager's Journal on Digital Signal Processing*, 4(1), 31-37.
64. Suman, S. K. & Giri, V. K. (2016). "Configuration of PID Controller for Speed Control of DC Motor Utilizing Optimization Techniques and Innovations Strategies," *IJSRSET*, 2(2), 488-495.
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I solemnly declare that the above details are true.



Date: 09.09.2020

(SIGNATURE OF APPLICANT)