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## **Investigation of Economic Feasibility of a Virtual Power Plant and Electric Vehicle Charging Station in Grid Tied DC Microgrid**

Vinay Kumar Jadoun Dr.

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# CURRICULUM VITAE

## 1. PERSONAL INFORMATION

Name:	Dr. Vinay Kumar Jadoun
Father's Name:	Late Shri Devendra Singh
Mother's Name:	Late Smt. Kusumlata Singh
Date of Birth:	31May1985
Current Address:	Associate Professor, Department of Electrical & Electronics Engineering, Manipal Institute of Technology, Udupi - Karkala Rd, Eshwar Nagar, Manipal, Karnataka 576104
Permanent Address:	S/O Mr. Devendra Singh, 235, Kusum Kunj, Behind St. Annes School, Chandakyapuri, Sehore (M.P.)-466001
Contact number:	07891377638, 08290666730
Email ID:	vjadounmnit@gmail.com, vjadoun@gmail.com, vinay.jadoun@manipal.edu
Personal Profile	<a href="https://sites.google.com/view/drvinaykumarjadoun">https://sites.google.com/view/drvinaykumarjadoun</a>
Institute Profile	<a href="https://manipal.pure.elsevier.com/en/persons/vinay-kumar-jadoun">https://manipal.pure.elsevier.com/en/persons/vinay-kumar-jadoun</a>
ORCID ID	<a href="http://orcid.org/0000-0002-3373-8613">http://orcid.org/0000-0002-3373-8613</a>
Scopus Author ID	Scopus Author ID: 55014479000
Researcher ID	<a href="http://www.researcherid.com/rid/C-5344-2019">http://www.researcherid.com/rid/C-5344-2019</a>
Google Scholar	<a href="https://scholar.google.co.in/citations?user=IJnRjvYAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=IJnRjvYAAAAJ&amp;hl=en</a>
vidwan	<a href="https://vidwan.inflibnet.ac.in/myprofile#personal_information_panel">https://vidwan.inflibnet.ac.in/myprofile#personal_information_panel</a>

## 2. RESEARCH INTERESTS

- 1) AI application to Economic Operation of Power System.
- 2) Integrating block chain technology into the energy sector
- 3) CyberSecurity
- 4) Application of AI-ML with IOT in healthcare
- 5) Power System Operation and Control
- 6) Renewable Power Generation
- 7) Microgrid & Smart Grid
- 8) Electric Vehicles
- 9) Virtual Power Plant
- 10) Power Economic
- 11) Condition Monitoring of Electrical Apparatus
- 12) DGA
- 13) Health Monitoring of Power Transformer
- 14) Optimization & Soft Computing Techniques

## 3. ACADEMIC INFORMATION

Qualification	Institute	Board/ University	Year of Passing
Ph. D Electrical Engineering	Malaviya National Institute of Technology (MNIT), Jaipur (RAJ)	Malaviya National Institute of Technology (MNIT), Jaipur (RAJ)	July 2015
M. Tech Power Systems	Malaviya National Institute of Technology (MNIT), Jaipur (RAJ)	Malaviya National Institute of Technology (MNIT), Jaipur (RAJ)	2010
B.E. Electrical Engineering	Samrat Ashok Technological Institute (SATI) State Govt. Collage Vidisha (M.P)	Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal (M.P.)	2007

Higher Secondary	M.T.T.H.S. School, Sehore (M.P.)	M.P. Board, Bhopal (M. P.)	2002
High School	M.T.T.H.S. School, Sehore (M.P.)	M.P. Board, Bhopal (M. P.)	2000

#### 4. PROFESSIONAL AND RESEARCH EXPERIENCE

S. No.	Experience	Position Held	Name of Organization	Period		Total days	Nature of Work
				From	To		
1	Teaching & Research	Associate Professor	Manipal Institute of Technology, Manipal Karnataka	24th June 2021	Till Date		Teaching & Research
2	Teaching & Research	Assistant Professor Senior Scale	Manipal Institute of Technology, Manipal Karnataka	24th June 2019	23rd June 2021	2 years	Teaching & Research
3	Teaching & Research	Assistant Professor on contract	National Institute of Technology, Delhi	1st August 2018	24 <sup>th</sup> May 2019	9 Months 23 days	Teaching & Research
4	Teaching & Research	Lecturer on contract	National Institute of Technology, Hamirpur, Himachal Pradesh	5 <sup>th</sup> August 2015	31st July 2018	2 years 11 Months 26 days	Teaching & Research
5	Teaching & Research	Lecturer on contract	National Institute of Technology, Hamirpur, Himachal Pradesh	5th Nov. 2014	3 <sup>rd</sup> Aug. 2015	8 Months 29Days	Teaching & Research
6	Research	Ph. D. Research Scholar	MNIT Jaipur	17 <sup>th</sup> Feb 2011	3 <sup>rd</sup> Nov 2014	3 Years 8 Months	Research
7	Teaching	Assistant Professor	SIRT, Bhopal (M.P.)	1 <sup>st</sup> July 2010	31 <sup>th</sup> Jan 2011	6 Months	Teaching & Research
8	Research	M. Tech Research Scholar	MNIT Jaipur	July 2008	June 2010	2 Years	Research

#### 5. Thesis/Dissertation

Degree	Thesis Title	From	To	College/ Institute	University	Supervisor Name
Ph. D	Economic Operation of Power System	17/02/2011	15/07/2015	MNIT, Jaipur (RAJ)	MNIT, Jaipur (RAJ)	Prof. K. R. Niazi & Dr. Nikhil Gupta
PG	Environmental Friendly Economic Load Dispatch using Particle Swarm Optimization	July 2008	30/06/2010	MNIT, Jaipur (RAJ)	MNIT, Jaipur (RAJ)	Dr. Anil Swarnkar

## 6. Details of Doctoral Degree

Thesis Title	From	To	College/ Institute	University	Thesis Submitted Date	Final Viva Voce Date	Degree Awarded Date	Supervisor Name
Economic Operation of Power System	17/02/2011	15/07/2015	MNIT, Jaipur (RAJ)	MNIT, Jaipur (RAJ)	03/11/2014	15/07/2015	11/12/2015	Prof. K. R. Niazi & Dr. Nikhil Gupta

## 7. RESEARCH PAPERS ACCEPTED/PUBLISHED

### i. *International Journal (SCI)*

- [1]. Anubhav Kumar Pandey, **Vinay Kumar Jadoun**, and Jayalakshmi N. Sabhahit., Real Time Peak valley Pricing based Multi-objective Optimal Scheduling of Virtual Power Plant Considering Renewable Resources, Energies in MDPI, 15, no. 16: 5970. <https://doi.org/10.3390/en15165970> (SCI). **Impact Factor: 3.252, SCIE. ISSN: 1996-1073.**
- [2]. Jayalakshmi N.S., **Vinay Kumar Jadoun**, D.N. Gaonkar, Ashish Shrivastava, Neeraj Kanwar, Nandini K.K. “Optimal operation of multi-source electric vehicle connected microgrid using metaheuristic algorithm,” Journal of Energy Storage 52 (2022) 105067, **Impact Factor: 8.907, SCIE. ISSN: 2352-152X.**
- [3]. Jayalakshmi N. S., Sanjana Satish Solanke, **Vinay Kumar Jadoun**, Hasmat Malik, Fausto Pedro García Márquez and Jesús María Pinar-Pérez, “Contingency Analysis of a Grid connected EV’s for Primary 2 Frequency Control of an Industrial Microgrid using Proposed 3 Control Scheme,” MDPI Energies, vol. 15, no. 9: 3102, 2022. <https://doi.org/10.3390/en15093102>. **Impact Factor: 3.252, SCIE. ISSN: 1996-1073.**
- [4]. **Vinay Kumar Jadoun**, G Rahul Prashanth, Siddharth Suhas Joshi, K. Narayanan, Hasmat Malik, Fausto Pedro García Márquez, “Optimal fuzzy based economic emission dispatch of combined heat and power units using dynamically controlled Whale Optimization Algorithm,” Applied Energy, Elsevier, Volume 315, 2022, 119033, ISSN 0306-2619, <https://doi.org/10.1016/j.apenergy.2022.119033>. (SCI). **Impact Factor: 11.446.**
- [5]. Anshul Agarwal, Abhishek Awasthi, **Vinay Kumar Jadoun** & Ramesh C. Bansal “Selective Harmonic Elimination in Space Vector Modulated AC-AC Converter Using FPGA” Electric Power Components and Systems, T&F, Ltd. Vol. 49, Issues 11-12, pp. 990-1006, 2022 (SCI). ISSN No. 1532-5008. DOI: 10.1080/15325008.2021.2002469, **Impact Factor: 1.071**
- [6]. Sanjana S. Solanke, **Vinay Kumar Jadoun**, Jayalakshmi N. S. and Anshul Agarwal, “A Recapitulation on Enhancing the Future Smart Grid’s Stability Power Quality Using Electric Spring by IRESs”, IOP Conference Series: Materials Science and Engineering, Volume 1228, 012028, 2022, 3rd International Conference on Future of Engineering Systems and Technologies 18/12/2021 - 19/12/2021 Online (FEST 2021). (SCOPUS).
- [7]. K.K. Nandini, N.S. Jayalakshmi, **Vinay Kumar Jadoun**, “An overview of DC Microgrid with DC distribution system for DC loads,” Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 635-639, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.06.093>. (SCOPUS).
- [8]. Aman Jain, Mallika Goel, Shamyak Jain, Shubhjay Kumar, Anshul Agarwal, **Vinay Kumar Jadoun**, Microcontroller based ATM monitoring system for security purpose, Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 894-899, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.06.280>. (SCOPUS).
- [9]. Sweta Singh, Neeraj Kanwar, Divya Zindani, **Vinay Kumar Jadoun**, “Decision making approach for assessing the suitable hybrid renewable energy based microgrid system for rural electrification in India,” Materials Today: Proceedings, Volume 51, Part 1, 2022, Pages 21-25, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.04.186>. (SCOPUS).
- [10]. Shabbiruddin Shabbiruddin; Neeraj Kanwar; **Vinay Kumar Jadoun**; Majed A. Alotaibi; Hasmat Malik; Mohammed E. Nassar, “Fuzzy-Based Investigation of Challenges for the Deployment of Renewable Energy Power Generation. Energies”. 2022; 15(1):58. <https://doi.org/10.3390/en15010058>. MDPI Energies (ISSN 1996-1073) **Impact Factor: 3.252, SCIE. ISSN: 1996-1073.**

- [11]. **Vinay Kumar Jadoun**; Nipun Sharma; Piyush Jha; Jayalakshmi N. S.; Hasmat Malik; Fausto Pedro Garcia Márquez, "Optimal Scheduling of Dynamic Pricing Based V2G and G2V Operation in Microgrid using Improved Elephant Herding Optimization," in MDPI Sustainability, *13*(14), 7551, 2021 (ISSN 2071-1050). **Factor: 3.889, SCIE.**
- [12]. Bhargavi K. M. , Jayalakshmi N. S. , D. N. Gaonkar, Ashish Shrivastava, and **Vinay Kumar Jadoun**, "A Comprehensive Review on Control Techniques for Power Management of Isolated DC Microgrid System Operation," in IEEE Access, vol. 9, pp. 32196-32228, 2021, doi: 10.1109/ACCESS.2021.3060504. **Impact Factor: 3.745, SCIE. ISSN:2169-3536**
- [13]. **Vinay Kumar Jadoun**, G Rahul Prashanth, Siddharth Suhas Joshi, Anshul Agarwal, Hasmat Malik \*, Majed A. Alotaibi, Almutairi Abdulaziz, "Optimal Scheduling of Non-convex Cogeneration Units Using Exponentially Varying Whale Optimization Algorithm," has been published in MDPI Energies. 2021; 14(4):1008. <https://doi.org/10.3390/en14041008>. **Impact Factor: 3.004, SCIE. ISSN: 1996-1073**
- [14]. Anshul Agarwal, Jatin, **Vinay Kumar Jadoun**, "Design and Modelling for LCL Filter for Measurement of THD Reduction in Different Modular Multilevel Converters," has been accepted in MAPAN Journal of Metrology Society of India, 36(3), 599–606, September 2021. **Impact Factor: 1.05. SCIE** <https://doi.org/10.1007/s12647-021-00433-5> . ISSN:0970-3950.
- [15]. Jatin Badhan, Anshul Agarwal and **Vinay Jadoun**, "Comparative Analysis of 5 level, 7 level and 9 level Half-Bridge Modular Multilevel Converter (MMC)" Journal of Physics: Conference Series, IOP Publishing, vol. 1478, 012012, pp.1-8, 2020. (SCOPUS). doi:10.1088/1742-6596/1478/1/012012. ISSN:1742-6588
- [16]. Ankit Pal, Anuveksh Taneja, Subasish Kar and **Vinay Kumar Jadoun**, "Image Captioning Using Different Convolutional Neural Models" Journal of Physics: Conference Series, IOP Publishing, vol. 1478, 012004, pp. 1-9, 2020. (SCOPUS). doi:10.1088/1742-6596/1478/1/012004. ISSN:1742-6588
- [17]. Kingshuk Chatterjee, **Vinay Kumar Jadoun**, R k Jarial, Subham Dawn, "A Novel Prediction-reliability Based Graphical DGA Technique Using Multi-layer Perceptron Network & Gas Ratio Combination Algorithm" IET Science, Measurement & Technology, vol. 13, Iss. 6, pp. 836-842, 2019, (SCI) Online ISSN 1751-8830, Print ISSN 1751-8822, **Impact Factor: 2.3. 10.1049/iet-smt.2018.5397.**
- [18]. **Vinay Kumar Jadoun**, Vipin Chandra Pandey, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, "Integration of Renewable Energy Sources in Dynamic Economic Load Dispatch problem using an Improved Fireworks Algorithm," IET Renewable Power Generation, vol. 12, no. 9, pp. 1004-1011, 2018. (SCI), Print ISSN 1752-1416, Online ISSN 1752-1424, **Impact factor: 3.894. 10.1049/iet-rpg.2017.0744**
- [19]. Vipin C. Pandey, **Vinay Kumar Jadoun**, Nikhil Gupta, Khaleequr. R. Niazi and Anil Swarnkar, "Improved Fireworks Algorithm with Chaotic Sequence Operator for Large-Scale Non-convex Economic Load Dispatch Problem", Arabian Journal for Science and Engineering, Springer, vol. 43, no. 6, pp. 2919–2929, 2018. (SCI), ISSN: 2193-567X (Print), ISSN: 2191-4281 (Online). <https://doi.org/10.1007/s13369-017-2956-6>. **Impact factor: 2.334.**
- [20]. **Vinay Kumar Jadoun**, Mukesh K. Shah, Vipin C. Pandey, Nikhil Gupta, Khaleequr. R. Niazi and Anil Swarnkar, "Multi-Area Dynamic Economic Dispatch Problem With Multiple Fuels Using Improved Fireworks Algorithm" International Journal of Electrical Energy, Vol. 4, No. 4, December 2016 (doi: 10.18178/ijoe.4.4.204-208), ISSN: 2301-3656.
- [21]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Modulated particle swarm optimization for economic emission dispatch" the International Journal of Electric Power and Energy Systems, Elsevier, vol. 73, pp. 80–88, 2015. (SCI) ISSN No. 0142-0615. **Impact Factor 4.63**, <https://doi.org/10.1016/j.ijepes.2015.04.004>.
- [22]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Multi-area Economic Dispatch with Reserve Sharing using Dynamically Controlled Particle Swarm Optimization" the International Journal of Electric Power and Energy Systems, Elsevier, vol. 73, pp. 743–756, 2015. (SCI) ISSN No. 0142-0615. **Impact Factor 4.63**, <https://doi.org/10.1016/j.ijepes.2015.06.008>
- [23]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, Anil Swarnkar and R. C. Bansal, "Multi-area Environmental Economic Dispatch with Reserve Constraints using Enhanced Particle Swarm Optimization" Electric Power Components and Systems, T&F, Ltd., 43 (14), 1667-1679, 2015. (SCI) ISSN No. 1532-5008. **Impact Factor: 1.603**, <http://dx.doi.org/10.1080/15325008.2015.1044052>.

- [24]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Dynamically Controlled Particle Swarm Optimization for Large Scale Non-convex Economic Dispatch Problems" International Transactions on Electrical Energy Systems, John Wiley & Sons, Ltd., 25 (11), 3060–3074, November 2015. (SCI) ISSN No. 2050-7038. **Impact Factor: 1.692**, DOI: 10.1002/etep.2022.
- [25]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Enhanced Particle Swarm Optimization for Short-Term Non-Convex Economic Scheduling of Hydrothermal Energy Systems" Journal of Electrical Engineering & Technology (JEET), 10 (5), 1940-1949, 2015. (SCI) ISSN No. 1975-0102. **Impact Factor: 1.069**, <http://dx.doi.org/10.5370/JEET.2015.10.5.1940>.
- [26]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, and R. C. Bansal, "Improved Particle Swarm Optimization for Multi-area Economic Dispatch with Reserve Sharing Scheme", IFAC-Papers on Line, Vol. 48, Issue 30, pp. 161–166, 2015. (SCOPUS) **Impact Factor: 1.13** <https://doi.org/10.1016/j.ifacol.2015.12.371> ISSN: 2405-8963.
- [27]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, and R. C. Bansal, "Multi-area Economic Dispatch using Improved Particle Swarm Optimization", Energy Procedia, Elsevier, vol. 75, pp. 1087-1092, 2015. (SCOPUS) <https://doi.org/10.1016/j.egypro.2015.07.493> ISSN: 1876-6102.
- [28]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Economic Emission Short-Term Hydrothermal Scheduling using a Dynamically Controlled Particle Swarm Optimization" Research Journal of Applied Sciences, Engineering and Technology 8(13): 1544-1557, 2014. **Impact Factor: 0.45 (SCOPUS)** ISSN No. 2040-7467.
- [29]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Nonconvex Economic Dispatch Using Particle Swarm Optimization with Time Varying Operators," has been published in the Advances in Electrical Engineering, Hindawi Publishing Corporation, vol. 2014, Article ID 301615, 13 pages, 2014. doi:10.1155/2014/301615. ISSN: 2356-6655 (Print), ISSN: 2314-7636 (Online). DOI: 10.1155/7291., <http://dx.doi.org/10.1155/2014/301615>.

## ii. *International Conference*

- [1]. Anushka Khanna, Mahic Shah and Vinay K Jadoun, "IoT-based Data Acquisition System for Road Health Monitoring" been **accepted** for presentation in 2022 IEEE 10th Power India International Conference (PIICON) to be held at NIT Delhi from 25-27 November 2022.
- [2]. Anubhav Kumar Pandey, Vinay K Jadoun and Jayalakshmi N. Sabhahit "Profit Maximization based Optimal Scheduling of a Virtual Power Plant using Red Fox Optimzer" been **accepted** for presentation in 2022 IEEE 10th Power India International Conference (PIICON) to be held at NIT Delhi from 25-27 November 2022.
- [3]. Jacob John, Mandara C. K, Vinay K Jadoun, Ganesh Kudva and Jayalakshmi N. Sabhahit "Cost Optimization of EV Integrated Isolated Residential Microgrid with V2H Capability using Genetic Algorithm" been **accepted** for presentation in 2022 IEEE 10th Power India International Conference (PIICON) to be held at NIT Delhi from 25-27 November 2022.
- [4]. C. K. Mandara, V. Kumar Jadoun and A. Agarwal, "Load Forecasting of Electric Power Distribution System using Different Techniques: A Review," 2022 IEEE Students Conference on Engineering and Systems (SCES), 2022, pp. 01-06, doi: 10.1109/SCES55490.2022.9887657.
- [5]. Jacob John, **Vinay Kumar Jadoun**, Jayalakshmi N. S., Neeraj Kanwar and Anshul Agarwal, "Grid Connected Hybrid Microgrid with EV Incorporating Uncertainties" 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), 2022, pp. 1-6, doi: 10.1109/PARC52418.2022.9726627. (SCOPUS)
- [6]. Nandini K. K., Jayalakshmi N. S. and **Vinay Kumar Jadoun**, "Energy Management System for PV Integrated Utility Grid with Electric Vehicle as Storage System" 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), 2022, pp. 1-6, doi: 10.1109/PARC52418.2022.9726655. (SCOPUS)
- [7]. Anubhav Kumar Pandey, **Vinay Kumar Jadoun** and Jayalakshmi N. S., "A Prospective Study of Smart Grid in Modern Distribution Power Systems" 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), 2022, pp. 1-6, doi: 10.1109/PARC52418.2022.9726245. (SCOPUS)

- [8]. G. Kudva, K. Shivam, S. Prabhat, N. S. Jayalakshmi, D. N. Gaonkar and **V. K. Jadoun**, "Fuzzy Logic Based Inverter Controller for Stand-Alone Operation of PV/Battery System," *2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, 2021, pp. 1-6, doi: 10.1109/CONECCT52877.2021.9622725. (**SCOPUS**)
- [9]. Abhilash Mohan P., Jayalakshmi N. S. and **Vinay Kumar Jadoun**, "Electricity from Air: An efficient way of Wireless Power Tapping," *2021 8th International Conference on Signal Processing and Integrated Networks (SPIN)*, 2021, pp. 88-92, doi: 10.1109/SPIN52536.2021.9566144. (**SCOPUS**).
- [10]. Anubhav Kumar Pandey, **Vinay Kumar Jadoun** and Jayalakshmi N. S., "Virtual Power Plants: A New Era of Energy Management in Modern Power Systems," *2021 8th International Conference on Signal Processing and Integrated Networks (SPIN)*, 2021, pp. 538-543, doi: 10.1109/SPIN52536.2021.9566063. (**SCOPUS**).
- [11]. N. Sharma, P. Jha, **V. K. Jadoun** and A. Agarwal, "Optimal Scheduling of Grid-Connected Microgrid Using PSO in Dynamic Pricing Environment," *2020 IEEE Students Conference on Engineering & Systems (SCES)*, Prayagraj, India, 2020, pp. 1-6, doi: 10.1109/SCES50439.2020.9236758. (**SCOPUS**).
- [12]. G. R. Prashanth, S. S. Joshi, **V. K. Jadoun** and A. Agarwal, "Economic Scheduling of Combined Heat and Power Systems Using Whale Optimization Algorithm," *2020 IEEE Students Conference on Engineering & Systems (SCES)*, Prayagraj, India, 2020, pp. 1-6, doi: 10.1109/SCES50439.2020.9236704. (**SCOPUS**).
- [13]. Siddharth Suhas Joshi, G Rahul Prashanth, **Vinay Kumar Jadoun**, Anshul Agarwal, and Saurabh Kumar Pandey "Optimal Non-convex Combined Heat and Power Economic Dispatch Using Particle Swarm Optimization," *2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, Patna, India, 2020, pp. 1-6, doi: 10.1109/ICEFEET49149.2020.9186986. (**SCOPUS**).
- [14]. Vishakha Vishakha, Vicky Vardwaj, **Vinay Kumar Jadoun**, Jayalakshmi N. S. and Anshul Agarwal, "Review of Optimization Techniques for Hybrid Wind PV-ESS System," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 202-207, doi: 10.1109/PARC49193.2020.236593. From February 28th-29th, 2020 technically sponsored by IEEE UP Section (**SCOPUS**).
- [15]. Vicky Vardwaj, Vishakha Vishakha, **Vinay Kumar Jadoun**, Jayalakshmi N. S. and Anshul Agarwal, "Various Methods Used for Battery Balancing in Electric Vehicles: A Comprehensive Review," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 208-213, doi: 10.1109/PARC49193.2020.236594. From February 28th-29th, 2020 technically sponsored by IEEE UP Section (**SCOPUS**).
- [16]. Bhargavi Km, Jayalakshmi Ns, Sheetal Malagi and **Vinay Kumar Jadoun**, "Integration of Plug-in Electric Vehicles in Smart Grid: A Review," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 214-219, doi: 10.1109/PARC49193.2020.236595. From February 28th-29th, 2020 technically sponsored by IEEE UP Section (**SCOPUS**).
- [17]. Sudheendra H R, **Vinay Kumar Jadoun**, Jayalakshmi N. S. and Anshul Agarwal, "Latest Trends in PMU Placement Techniques," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 340-345, doi: 10.1109/PARC49193.2020.236622. From February 28th-29th, 2020 technically sponsored by IEEE UP Section (**SCOPUS**).
- [18]. Umesh Pant, Pankaj Gupta, Ashish Verma, Pankaj Pant, Dr. Aman Kumar and **Vinay Kumar Jadoun**, "Analog/Digital Data Transmission using Li-Fi," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 54-58, doi: 10.1109/PARC49193.2020.236557. From February 28th-29th, 2020 technically sponsored by IEEE UP Section. (**SCOPUS**).
- [19]. Satyasheel Prakash, Vinay Rangta, Jayalakshmi N. S. and **Vinay Kumar Jadoun**, "Optimal Location of DGs in a Distribution System for Maintaining Voltage Profile and Loss Reduction Using Genetic Algorithm," *2020 International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)*, Mathura, Uttar Pradesh, India, 2020, pp. 59-64, doi: 10.1109/PARC49193.2020.236558. From February 28th-29th, 2020 technically sponsored by IEEE UP Section (**SCOPUS**).

- [20]. Kingshuk Chatterjee, **Vinay Kumar Jadoun**, R K Jarial, “Emerging Trends for Determining Incipient Faults by Dissolved Gas Analysis”, has been published in 3rd International Conference on Condition Assessment Techniques in Electrical Systems (CATCON 2017) [IEEE Conference record No. 41724], organized in Indian Institute of Technology Ropar, Rupnagar, Punjab, India, during 16th to 18th, November, 2017, pp. 63-68, ISBN: 978-1-5386-3137-9. **(SCOPUS)**.
- [21]. Kingshuk Chatterjee, **Vinay Kumar Jadoun**, R K Jarial, “DGA Techniques: Recent Advancements” has been published in International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET: EITM-2017) organized in National Institute of Technology Hamirpur, Himachal Pradesh, India, during Dec 16-18, 2017, pp. 193-198, ISBN: 978-93-86724-31-1. **(Internationally Renowned Conference)**.
- [22]. Tanuja Seervi, **Vinay Kumar Jadaun**, Saurabh Kumar Pandey, “Design and Analysis of Advanced Obstacle Detection System” has been published in International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET: EITM-2017) organized in National Institute of Technology Hamirpur, Himachal Pradesh, India, during Dec 16-18, 2017, pp. 358-361, ISBN: 978-93-86724-31-1. **(Internationally Renowned Conference)**.
- [23]. Anmol Jain, **Vinay Kumar Jadaun**, Saurabh Kumar Pandey, “Medical Health Kit: ECG Classification and Analysis of heart beat using MATLAB” has been published in International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET: EITM-2017) organized in National Institute of Technology Hamirpur, Himachal Pradesh, India, during Dec 16-18, 2017, pp. 362-366, ISBN: 978-93-86724-31-1. **(Internationally Renowned Conference)**.
- [24]. **Vinay Kumar Jadoun**, Mukesh K. Shah, Vipin C. Pandey, Nikhil Gupta, Khaleequr. R. Niazi and Anil Swarnkar, “Multi-Area Dynamic Economic Dispatch Problem With Multiple Fuels Using Improved Fireworks Algorithm” has been published in 2016 5th International Conference on Power Science and Engineering (ICPSE 2016), held during December 14-17, 2016, Venice. **(Internationally Renowned Conference)**.
- [25]. **Vinay Kumar Jadoun**, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, and R. C. Bansal, “Short-Term Non-Convex Economic Hydrothermal Scheduling Using Dynamically Controlled Particle Swarm Optimization”, has been published in the Third Southern African Solar Energy Conference (SASEC2015), Skukuza, Kruger National Park, South Africa, 11-13 May 2015, pp. 199-204. <http://hdl.handle.net/2263/49490>. **(Internationally Renowned Conference)**.
- [26]. **Vinay Kumar Jadoun**, Nikhil Gupta, Anil Swarnkar, and K. R. Niazi, “Non-Convex Economic Load Dispatch using Particle Swarm Optimization with Elevated Search and Addressed Operators”, has been published in the IEEE sponsored International Conference on “Recent Developments on Control, Automation and Power Engineering RDCAPE 2015”, Amity School of Engineering & Technology, Uttar Pradesh, Noida, pp. 113 – 118, 12-13 March 2015. **(SCOPUS) 10.1109/RDCAPE.2015.7281379**.
- [27]. **Vinay Kumar Jadoun**, K. R. Niazi, Anil Swarnkar, and Nikhil Gupta, “Variable Acceleration Coefficient-based Particle Swarm Optimization for Non-Convex Economic Load Dispatch Problem”, has been published in the International Conference on IEEE PES Innovative Smart Grid Technologies (ISGT-2011, INDIA), conducted by IEEE Kerala Section, pp. 126 – 130 from December 1-3, 2011 at Kollam (Kerala). **(SCOPUS) 10.1109/ISGT-India.2011.6145368**.
- [28]. **Vinay Kumar Jadoun**, Prashant Dadheech, Anil Swarnkar, Nikhil Gupta, and K. R. Niazi, “Environment Friendly Multi-Objective Economic Load Dispatch Problem using Particle Swarm Optimization without consideration of Power Loss,” presented at the International Conference on “Advances in Communications, Embedded Systems and Computing” (ICACEC-2011), Organized by Departments of EC, CSE & IT, Sagar Institute of Research & Technology (SIRT), Bhopal in collaboration with CSI, Bhopal Chapter and IETE, Bhopal Chapter held on January 14-15, 2011, pp. 394-399 **(Internationally Renowned Conference)**.
- [29]. Sonali Mathur, Vinay Kumar Jadoun, Prashant Dadheech, and Girraj Singh “Survey Paper on Particle Swarm Optimization,” presented at the International Conference on “Advances in Communications, Embedded Systems and Computing” (ICACEC-2011), Organized by Departments of EC, CSE & IT, Sagar Institute of Research & Technology (SIRT), Bhopal in collaboration with CSI, Bhopal Chapter and IETE, Bhopal Chapter held on January 14-15, 2011, pp. 416-423 **(Internationally Renowned Conference)**.
- [30]. Prashant Dadheech, Vinay Kumar Jadoun, and Sonali Mathur, “Applications of Artificial Neural Network in Power systems,” presented at the for International Conference on “Advances in Communications,



Embedded Systems and Computing” (ICACEC-2011), Organized by Departments of EC, CSE & IT, Sagar Institute of Research & Technology (SIRT), Bhopal in collaboration with CSI, Bhopal Chapter and IETE, Bhopal Chapter held on January 14-15, 2011, pp. 312-317 (**Internationally Renowned Conference**).

- [31]. Vinay Kumar Jadoun, Anil Swarnkar, Nikhil Gupta, and K. R. Niazi, “Environment Friendly Multi-objective Economic Load Dispatch problem in Fuzzy Framework using Particle Swarm Optimization,” presented at the International Conference on Electrical Power and Energy Systems” (ICEPES-2010), conducted by MANIT, Bhopal, M.P., pp. 697-702, Aug. 26-28, 2010 (**Internationally Renowned Conference**).
- [32]. Vinay Kumar Jadoun, Anil Swarnkar, Nikhil Gupta, and K. R. Niazi, “Environment Friendly Multi objective Economic Load Dispatch problem using Particle Swarm optimization,” presented at the International Conference on Energy optimization and control” (ICEOC-2010), conducted by Government College of Engineering (GEC), Aurangabad (Maharashtra), pp-323-327, Dec. 28-30, 2010 (**Internationally Renowned Conference**).

### iii. *National Conference*

- [1]. Vinay Kumar Jadoun, Gulshan Sharma, Anil Swarnkar, Nikhil Gupta, and K. R. Niazi, “Application of soft computing techniques in economic load dispatch: a review” presented in 3rd national conference on power electronics and intelligent control (NCPEIC-2012), Organized by Departments of Electrical Engg., MNIT Jaipur held on November 01-02, 2012, pp. 224-228 (**Internationally Renowned Conference**).
- [2]. Gulshan Sharma, Vinay Kumar Jadoun, Ibraheem, Anil Swarnkar, Nikhil Gupta, K. R. Niazi, “Design of Robust Controller for Load Frequency Control of Multi-Unit Power System Connected via EHVAC in parallel with HVDC Link” presented in 3rd national conference on power electronics and intelligent control (NCPEIC-2012), Organized by Departments of Electrical Engg., MNIT Jaipur held on November 01-02, 2012, pp. 213-217 (**Internationally Renowned Conference**).
- [3]. Gulshan Sharma, Vinay Kumar Jadoun, Anil Swarnkar, Nikhil Gupta, Ibraheem, K. R. Niazi, “Design of Incremental Controller for Load Frequency Control of a Multi-Area Interconnected Power System” presented in 3rd national conference on power electronics and intelligent control (NCPEIC-2012), Organized by Departments of Electrical Engg., MNIT Jaipur held on November 01-02, 2012, pp. 233-237 (**Internationally Renowned Conference**).
- [4]. Vinay Kumar Jadoun, Anil Swarnkar, and Nikhil Gupta, “A Review of PSO and its applications,” presented in the all India Seminar on “Innovations and Recent Trends in Power and Power Electronics”, organized by Institution of Engineers (India) Rajasthan State Centre, Jaipur and Arya College of Engg. & Information, Jaipur, April 24-25, 2010 (**Internationally Renowned Conference**).

## 6. *BOOK CHAPTER*

- [1]. Sreeram Warrier, IoT and ML-based personalised healthcare system for heart patients accepted in RCAAI 2022
- [2]. Chandana H. B, Vinay Kumar Jadoun, Jayalakshmi N. S. and Neeraj Kanwar, “Comparative Study of Battery Charging Methods in Electric Vehicles” In: Dwivedi, S., Singh, S., Tiwari, M., Shrivastava, A. (eds) Flexible Electronics for Electric Vehicles. Lecture Notes in Electrical Engineering, vol 863, pp 603–612, 2023, Springer, Singapore. [https://doi.org/10.1007/978-981-19-0588-9\\_59](https://doi.org/10.1007/978-981-19-0588-9_59) organized by Manipal University Jaipur during 18-19 March 2021. (**SCOPUS**)
- [3]. Arpitha C S, Vinay Kumar Jadoun, Jayalakshmi N. S. and Neeraj Kanwar, “Inductive Power Transfer Modelling for Wireless Charging of Electric Vehicles” In: Dwivedi, S., Singh, S., Tiwari, M., Shrivastava, A. (eds) Flexible Electronics for Electric Vehicles. Lecture Notes in Electrical Engineering, vol 863, pp 613–621, 2023. Springer, Singapore. [https://doi.org/10.1007/978-981-19-0588-9\\_60](https://doi.org/10.1007/978-981-19-0588-9_60) organized by Manipal University Jaipur during 18-19 March 2021. (LNEE). (**SCOPUS**)
- [4]. Deekshant Goyal, Kanupriya Khandelwal, Shreya Agrawal, Anshul Agarwal and Vinay Kumar Jadoun, “Analysis of DC-DC Converter for Renewable Energy System” accepted in 1st International Conference on Materials and Manufacturing Engineering (ICMME)-2021 organized by HMR Institute of Technology and Management, Delhi during September 18-19, 2021. (**SCOPUS**)
- [5]. Piyush Jha, Nipun Sharma, Vinay Kumar Jadoun, Anshul Agarwal, Anuradha Tomar, “Chapter 13 - Optimal scheduling of a microgrid using AI techniques,” Control of Standalone Microgrid, Academic Press,

- 2021, Pages 297-336, ISBN 9780128230220, <https://doi.org/10.1016/B978-0-12-823022-0.00004-0>. (<https://www.sciencedirect.com/science/article/pii/B9780128230220000040>) (SCOPUS)
- [6]. Deekshant Goyal, Nikhil Garg, Anshul Agarwal and Dr. Vinay Kumar Jadoun, Mathematical Modelling of Single-Phase Induction Motor, **accepted** in Lecture Notes in Mechanical Engineering (LNME), Scopus Indexed publication of Springer, 7th International Conference on Advanced Production and Industrial Engineering (ICAPIE 2021) is being organized by CAPIER, DTU during June 18-19, 2021 at Delhi Technological University (DTU), Delhi, India (<http://www.icapie.com/>). (SCOPUS)
  - [7]. Aashish Kumar Bohre, Yashwant Sawle, Vinay Kumar Jadoun and Anshul Agarwal, “Assessment of Techno-Socio-Economic Performances of Distribution Network with Optimal Planning of Multiple DGs” has been **presented** in 1st International Conference on Energy, Material Sciences & Mechanical Engineering – 2020 EMSME-2020 organize by NIT Delhi during October 31 - November 01, 2020 will publish in Lecture Notes in Electrical Engineering, Springer. (SCOPUS).
  - [8]. Neeraj Kanwar, Divay Bargoti and Vinay Kumar Jadoun, “Power Transformer Summer Peak Load Prediction using SCADA and Supervised Learning” In: Bansal R.C., Agarwal A., Jadoun V.K. (eds) Advances in Energy Technology. Lecture Notes in Electrical Engineering, vol 766, pp 215-221. 2022, Springer, Singapore. [https://doi.org/10.1007/978-981-16-1476-7\\_21](https://doi.org/10.1007/978-981-16-1476-7_21). (SCOPUS). **Online ISBN 978-981-16-1476-7**
  - [9]. Yogesh Tomar, Ashutosh Kumar, Pradhan Meena, Sunil Yadav, Anshul Agarwal and Vinay Kumar Jadoun, “Electricity Generation Using Wind Tree’ In: Bansal R.C., Agarwal A., Jadoun V.K. (eds) Advances in Energy Technology. Lecture Notes in Electrical Engineering, vol 766, pp 153-161. 2022, Springer, Singapore. [https://doi.org/10.1007/978-981-16-1476-7\\_15](https://doi.org/10.1007/978-981-16-1476-7_15). (SCOPUS). **Online ISBN 978-981-16-1476-7**
  - [10]. Dinesh Kumar Saini, Sameer Meena, Kamlesh Choudhary, Sheetal Bedia, Anshul Agarwal and VinayKumar Jadoun, “Auto Streetlight Control with Detecting Vehicle Movement” In: Bansal R.C., Agarwal A., Jadoun V.K. (eds) Advances in Energy Technology. Lecture Notes in Electrical Engineering, vol 766, pp 279-288. 2022, Springer, Singapore. [https://doi.org/10.1007/978-981-16-1476-7\\_26](https://doi.org/10.1007/978-981-16-1476-7_26). (SCOPUS). **Online ISBN 978-981-16-1476-7**
  - [11]. Varun Teja P.V.N.R., Jadoun V.K., Agarwal A. (2021) A Comparative Study of Renewable Energy Resources in Distribution Network. In: Kumar J., Jena P. (eds) Recent Advances in Power Electronics and Drives. Lecture Notes in Electrical Engineering, vol 707. pp 203-215, Springer, Singapore. [https://doi.org/10.1007/978-981-15-8586-9\\_19](https://doi.org/10.1007/978-981-15-8586-9_19). **04 December 2020 (SCOPUS). Online ISBN 978-981-15-8586-9**
  - [12]. G Rahul Prashanth, Siddharth Suhas Joshi, Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, Anil Swarnkar “Comparative Analysis of Optimal Scheduling of Multi-objective Non-convex Combined Heat and Power Units Using AI Techniques”. Title of Book: Metaheuristic and Evolutionary Computation: Algorithms and Applications, Name of Book Series: “Studies in Computational Intelligence” (<https://www.springer.com/series/7092>), Publication: Springer Nature. (SCOPUS)., pp 705-728, 2021, Online ISBN 978-981-15-7571-6.
  - [13]. Bhushan U.P., Jarial R.K., Jadoun V.K., Agarwal A. (2021) On Condition Monitoring Aspects of in-Service Power Transformers Using Computational Techniques. In: Pandey V.C., Pandey P.M., Garg S.K. (eds) Advances in Electromechanical Technologies. Lecture Notes in Mechanical Engineering. Springer, Singapore. pp 343-355, [https://doi.org/10.1007/978-981-15-5463-6\\_31](https://doi.org/10.1007/978-981-15-5463-6_31). (SCOPUS). **Online ISBN 978-981-15-5463-6**
  - [14]. Wangmo P., Jadoun V.K., Agarwal A., Kumar H. (2021) Solar Power-Based Smart Greenhouse. In: Pandey V.C., Pandey P.M., Garg S.K. (eds) Advances in Electromechanical Technologies. Lecture Notes in Mechanical Engineering. Springer, Singapore. pp 127-135, [https://doi.org/10.1007/978-981-15-5463-6\\_12](https://doi.org/10.1007/978-981-15-5463-6_12). (SCOPUS). **Online ISBN 978-981-15-5463-6**
  - [15]. Bhardwaj R.K., Ranwa S., Kumar R., Meena L., Agarwal A., Jadoun V.K. (2021) Automatic Land Defense System for Borders Using Radar, Laser Gun and Related Tools. In: Pandey V.C., Pandey P.M., Garg S.K. (eds) Advances in Electromechanical Technologies. Lecture Notes in Mechanical Engineering. Springer, Singapore. pp 145-161, [https://doi.org/10.1007/978-981-15-5463-6\\_14](https://doi.org/10.1007/978-981-15-5463-6_14). (SCOPUS). **Online ISBN 978-981-15-5463-6**.
  - [16]. Padma Wangmo, Vinay Kumar Jadoun, Anshul Agarwal, “A Review on Solar Energy Based Smart Greenhouse” has been published in Recent Advances in Mechanical Engineering. Lecture Notes in

Mechanical Engineering. Springer, Singapore, 2020, pp 629-634, [https://doi.org/10.1007/978-981-15-1071-7\\_52](https://doi.org/10.1007/978-981-15-1071-7_52), Print ISBN 978-981-15-1070-0. (SCOPUS).

- [17]. Rajesh Kumar Meena, Dheeraj Kumar, Vinay Kumar Jadoun, and Saurabh Kumar Pandey, "Power Quality Improvement of Microgrid Using Double Bridge Shunt Active Power Filter (DBSAPF)," has been published in In: Kalam A., Niazi K., Soni A., Siddiqui S., Mundra A. (eds) Intelligent Computing Techniques for Smart Energy Systems. Lecture Notes in Electrical Engineering, vol 607, pp 475-483, Springer, Singapore, 2020. [https://doi.org/10.1007/978-981-15-0214-9\\_51](https://doi.org/10.1007/978-981-15-0214-9_51), Print ISBN 978-981-15-0213-2, Online ISBN 978-981-15-0214-9. (SCOPUS).
- [18]. Madhulika Das and Vinay Kumar Jadoun, "Stabilization of Chaotic Systems Using Robust Optimal Controller," has been published in In: Kalam A., Niazi K., Soni A., Siddiqui S., Mundra A. (eds) Intelligent Computing Techniques for Smart Energy Systems. Lecture Notes in Electrical Engineering, vol 607, pp 795-803, Springer, Singapore, 2020. [https://doi.org/10.1007/978-981-15-0214-9\\_84](https://doi.org/10.1007/978-981-15-0214-9_84), Print ISBN 978-981-15-0213-2, Online ISBN 978-981-15-0214-9. (SCOPUS).
- [19]. Akanksha Kalia, Shikar Sharma, Saurabh Kumar Pandey, Vinay Kumar Jadoun and Madhulika Das, "Comparative Analysis of Speaker Recognition System based on Voice Activity Detection technique, MFCC and PLP features" has been published in In: Kalam A., Niazi K., Soni A., Siddiqui S., Mundra A. (eds) Intelligent Computing Techniques for Smart Energy Systems. Lecture Notes in Electrical Engineering, vol 607, pp 781-787, Springer, Singapore, 2020. [https://doi.org/10.1007/978-981-15-0214-9\\_82](https://doi.org/10.1007/978-981-15-0214-9_82), Print ISBN 978-981-15-0213-2, Online ISBN 978-981-15-0214-9. (SCOPUS).

## 7. **INTERNATIONAL CONFERENCE ORGANIZED**

- [1]. Publicity Chair in 4<sup>th</sup> International Conference on Communication and Intelligent Systems ICCIS 2022 Organized (Hybrid Mode) by National Institute of Technology Delhi (<https://nitdelhi.ac.in/>) Technically Sponsored by Soft Computing Research Society (<https://www.scrs.in/>) DECEMBER 19-20, 2022
- [2]. Publication Committee Chair Power India International Conference 2022 – PIICON 2022, under the aegis of IEEE PES-IAS Delhi Chapter as well as IEEE PELS-IES Delhi Chapter, the 10th in the series will be held from 25 – 27 November 2022 at National Institute of Technology Delhi, India.
- [3]. Publicity and Sponsorship Chairs in The International Conference on Robotics, Control, Automation and Artificial Intelligence (RCAAI-2022) Organized by Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Manipal, India in collaboration with Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, India on 24-26 November 2022 | Virtual Mode.
- [4]. Convener of two days 2nd International Conference on Future of Engineering Systems and Technologies (FEST) 2021 to be held from 18-19 December 2021 at IGDTUW New Delhi, India.
- [5]. Special Session Chairperson & Convenor in Special Session (no. 4.018) on "Application of Soft computing Techniques in Modern Power and Energy Systems" in the IEEE INDIACom2021. INDIACom – 2021 is organized by Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, which is 15th INDIACom – 2021 International IEEE Conference on Computing for Sustainable Global Development, Technically approved by IEEE Delhi Section and supported and promoted by GGSIP University, New Delhi, IETE Delhi Centre, ISTE Delhi Section, Computer Society of India and IET Delhi Local Networks to be held during 17th – 19th March, 2021.
- [6]. Convener of two days 2nd International Conference on Future of Engineering Systems and Technologies, (FEST2020) December 18-19, 2020, Organized by FIST New Delhi in association with NIET, Greater Noida.
- [7]. Organizing Secretary of two days 1st International conference on Future of Engineering systems and Technologies (FEST-2019)" on 21st-22nd December 2019 to be held at 'G L Bajaj Institute of Technology and Management, Greater Noida'.
- [8]. Joint Organizing Secretary of International Conference on Emerging Trends in Engineering Innovation & Technology Management (ICET: EITM-2017) organized by Department of Electrical Engineering, NIT Hamirpur, during Dec. 16-18, 2017.

## 8. **SHORT TERM COURSE ORGANIZED**

- [1] Co-coordinator in the short term course on “Economic Operation of Power Systems with MATLAB Application (EOPS-17) 19th-24th June, 2017 organized by Department of Electrical Engineering, National Institute of Technology (NIT), Hamirpur HP.

#### **9. Editor in Book**

- [1] Associate Editor in Frontiers In Smart Grids Journal.
- [2] Ramesh C Bansal, Anshul Agarwal, Vinay Kumar Jadoun, ‘Advances in Energy Technology-Select Proceedings of EMSME 2020’, publication Lecture Notes in Electrical Engineering, Springer, Singapore. LNEE, volume 766, 2021. ISBN: 978-981-16-1476-7.

#### **10. SPECIAL ISSUE ORGANIZED**

- [1] Guest Editor in the Special Issue on “2-Dimensional Materials for Optoelectronics Devices” in the Advances in OptoElectronics, Hindawi Journal.

#### **11. Delivered Expert Lecture**

- [1] Delivered an Expert Speaker in Online Two Week Multidisciplinary Faculty Development Program on “Advancement in Engineering Applications” organized by Department of Electrical Engineering, Engineering College, Jhalawar during 14th to 25th March 2022.
- [2] Delivered an expert talk on the topic “Energy Management Strategies for Modern Power System” in the Faculty Development Program on “Introduction to Modern Technologies of Smart Grid (IMTSG)” held through virtual mode from 07/03/2022 to 11/03/2022 at Graphic Era(Deemed to be University), Dehradun, Uttarakhand.
- [3] Delivered an expert talk on the topic “Microgrid Operations and Challenges in Modern Power System” organized by Department of Electrical Engineering, Medi-Caps University, Indore through virtual mode on 25 January 2022.
- [4] Delivered an expert talk on the topic “Microgrid Operations and Challenges in Modern Power System” organized by Department of Electrical Engineering, SIRT Bhopal through virtual mode on 23 July 2022.
- [5] Delivered a lecture on “What are Research papers?” in SAGE Summer School Make Easy M.Tech. Thesis and Research paper writing skills by Department of Electrical and Electronics Engineering, SIRT Bhopal on 16June2021.
- [6] Delivered a lecture on “Optimal scheduling in modern power system using soft computing techniques” in AICTE Sponsored Six Days Online STTP on “AI – Based Novel Power Distribution and Correction Technology ,Slot II, at Department of Electrical and Electronics Engineering, Sengunthar Engineering College(Autonomous),Tiruchengode on 25.11.2020 (10.00 a.m. to 12.00 p.m.).
- [7] Delivered expert lecture in Online Short-Term Course on “Recent Trends in Microgrid (RTM-2020)” organized by the Department of Electrical Engineering, NIT Jamshedpur from 27th October to 31st October 2020.
- [8] Delivered expert lecture in a TEQIP-III-RTU (ATU) Sponsored Two Days Faculty Development Program on Transient Stability in Power System from 11-12 September 2020 organized by Rajasthan Technical University, Kota & Department of Electrical Engineering, Jaipur Engineering Collage, Jaipur.
- [9] Delivered expert lecture in a workshop on “Real Time Simulation in Electrical Domain using Typhoon HIL and MATLAB Simulators (RTSED-2017)” held from 3<sup>rd</sup> to 8<sup>th</sup> October, 2017, organized by Department of Electrical Engineering, National Institute of Technology (NIT), Hamirpur HP.

#### **12. WORKSHOPS ATTENDED**

- [1]. Participated in two day workshop, ping 2.0.2.2 on Artificial Intelligence & Cognitive Science An Industry Perspective Organized by Department of Information and Communication Technology, Manipal Institute of Technology, Manipal in association with Deutsche Bank & Industry Experts 25.03.2022 and 26.03.2022.
- [2]. Participated and successfully completed Master Class on “Energy Auditing for Power Utilities”, that was organized by Tata Power-DDL on November 29-30, 2021.
- [3]. Participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 31May, 2021 to 4 June, 2021.

- [4]. Participated and successfully completed 5-Days Online FDP on “Artificial Intelligence” during 22-26 Feb, 2021 at Sikkim Manipal Institute of Technology, Sikkim.
- [5]. Attended the one week short term course on “Large-Scale grid integration of renewable sources: Challenge, issue, modelling and solutions” under TEQIP-III between 23-27 Sept, 2020.
- [6]. Attended a Webinar on “The Principles of Publishing A Research Paper” organized by Springer Nature” in collaboration with Manipal Humanities Department, MAHE on Oct 12, 2020.
- [7]. Participated in the Webinar on “Expert Talk for IEEE Membership and Branch Chapters Benefits” organized by Atria Institute of technology and IEEE Bangalore Section on 5 August 2020.
- [8]. Participated in the IEEE Monthly Webinar Series by Women Leaders on “Role of the machines: The Future of Robotics” held on 31<sup>st</sup> July 2020.
- [9]. Participated in the webinar on “ 3Ds of Good Online Assessment” organized by Central for Continuing Education and Interprofessiona Development (CCEID) held on 17<sup>th</sup> July 2020.
- [10]. Participated in the webinar on “What, Why and How?” organized by IEEE Bangalore Section and IEEE India Council on 19 July 2020.
- [11]. Participated in the training program on “Graphic Pen Tablet” organized by Department of Electrical & Electronics Engg. MIT manipal, MAHE on 14<sup>th</sup> July 2020.
- [12]. Participated in the webinar on “Role of Smart Grid in Facilitating the Integration of Renewables” organized by IEEE India Council, Conducted on 24<sup>th</sup> May 2020.
- [13]. Participated in a Faculty Training Session on ‘Online Teaching Using MS Teams’ On 15th April 2020, facilitated by Office of the Associate Director (Faculty Development and Welfare), MIT Manipal.
- [14]. Participated and successfully completed TEQIP-III Sponsored One Week Online Short-Term Course On “Operation & Control of Next Generation Restructured Low Carbon Power System” organized by Department Of Electrical Engineering, Dr. B. R. Ambedkar National Institute Of Technology Jalandhar during September 17-21, 2020
- [15]. Participated and successfully completed TEQIP-III Sponsored Five days Faculty Development Program on “Renewable Power Generation, Control And Grid Integration” RPGCGI 2020 organized by Department of Electrical Engineering, IGIT Sarang during 10th to 14th August, 2020.
- [16]. Attended the Online National Seminar On “Recent Trends in Solar Power” held on 4th August, 2020 by Raj Kumar Goel Institute of Technology, Ghaziabad jointly with Bhartiya Skill Development University, Jaipur (India).
- [17]. Participated in the One-Week- Online Short-Term Training Program on “Challenges in Grid Integration with Renewable Energy Sources” jointly organized by National Institute of Technology, Kurukshetra and Government Engineering Collage Bikaner from 22nd -26<sup>th</sup> June, 2020 under TEQIP-3: Mentoring/Twinning System.
- [18]. Participated in the Online AICTE Recognized Faculty Development Programme on Leadership and TeamWork for performance Excellence from 18-05-20 to 22-05-20 (One Week) Organized by Electrical Engineering Department NITTTR, Chandigarh.
- [19]. Participated in the Online AICTE Recognized Faculty Development Programme on Research Oriented Project Work from 11-05-20 to 15-05-20 (Except 15/05/2020) Organized by Curriculum Development Centre Department NITTTR Chandigarh.
- [20]. Participated in the Online AICTE Recognized Faculty Development Programme on Academic Leadership Enhancement in Technical Institutions from 04-05-20 to 08-05-20 (One Week) Organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
- [21]. Participated in the webinar organized by PES INDIA Chapters Council, PICC on “COVID-19 Impact on Indian Electricity Grid Operation and The Pan India Lights Out Event of 5<sup>th</sup> April 2020” held on 29<sup>th</sup> April, 2020.
- [22]. Successfully completed the following module, “How to produce highly visible research: Useful tips for researchers,” Researcher Academy, Elsevier on Wednesday 29 April, 2020.
- [23]. Successfully completed the following module “Making academia–industry collaborations work,” Researcher Academy, Elsevier on Wednesday 29 April, 2020.
- [24]. Successfully completed the following module “What to expect from the Certified Peer Reviewer Course?” Researcher Academy, Elsevier on Wednesday 29 April, 2020.

- [25]. Successfully completed the following module “3.3 How to peer review a review article,” Researcher Academy, Elsevier on Wednesday 29 April, 2020.
- [26]. One Day Faculty Development Program on “Computer Vision & ICN” by Tata Consultancy Services at MIT, Manipal on 22<sup>nd</sup> November 2019.
- [27]. Three days Faculty Development Program (Tier-1) on “Effective Teaching” organized by The office of Faculty Development & Welfare, MIT Manipal on 11<sup>th</sup> to 13<sup>th</sup> November 2019.
- [28]. Three days Faculty Development Program on M-FITLAR: An Orientation Module in Fundamentals of Teaching-Learning, Academic Leadership and Research held at Centre for Continuing Education and Interprofessional Development (CCEID), MAHE on 6<sup>th</sup> to 8<sup>th</sup> August 2019.
- [29]. One-week Faculty Development Program on Electric Vehicle Jointly organized by Electronics and ICT Academies through National Knowledge Network under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology Govt. of India from 28May-01June, 2018 at NIT Hamirpur.
- [30]. Workshop on “Real Time Simulation in Electrical Domain using Typhoon HIL and MATLAB Simulators (RTSED-2017)” held from 3<sup>rd</sup> to 8<sup>th</sup> October, 2017, organized by Department of Electrical Engineering, National Institute of Technology (NIT), Hamirpur HP.
- [31]. Staff Development Program on “Emerging Technologies for Power System Operation & Energy Management” organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from June 17 to 23, 2013.
- [32]. TEQIP sponsored Short Term Course on “Optimization Techniques for Engineering Design” hold at Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from March 20 to 24, 2013.
- [33]. Short Term Course on “Operation and Control of Modern Power Systems (OCMPS)” organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from March 07 to 11, 2013.
- [34]. Short Term Course on “Smart Grid Technologies” organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from May 14 to 18, 2012.
- [35]. Short Term Course on “Power System Restructuring and Electricity Markets” organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from December 19 to 23, 2011.

### **13. CONFERENCES ATTENDED**

- [1]. Participated in Mangalore Technology Conclave and IEEE Day Celebrations held at St. Joseph Engineering College, Mangaluru, India on October 08, 2022 organized by IEEE Mangalore Subsection.
- [2]. "International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control" (PARC 2020) to be held at GLA University, Mathura, India from February 28th-29th, 2020 technically sponsored by IEEE UP Section.
- [3]. 1<sup>st</sup> National Conference on Advances in Mechanical Engineering NCAME – 2019 hold on 16th March 2019 in NIT Delhi.
- [4]. “International Conference on Intelligent Computing Techniques for Smart Energy Systems (ICTSES) 2018” hold on 22nd -23rd December 2018 in Manipal University Jaipur, India.
- [5]. International Conference on Emerging Trends in Engineering Innovation & Technology Management (ICET: EITM-2017) organized by Department of Electrical Engineering, NIT Hamirpur, during Dec. 16-18, 2017.
- [6]. The International Conference on “Recent Developments on Control, Automation and Power Engineering RDCAPE 2015”, Amity School of Engineering & Technology, Uttar Pradesh, Noida, 12-13 March 2015.
- [7]. 3rd national conference on power electronics and intelligent control (NCPEIC-2012), Organized by Departments of Electrical Engg., MNIT Jaipur held on November 01-02, 2012.
- [8]. International Conference on IEEE PES Innovative Smart Grid Technologies (ISGT-2011, INDIA), conducted by IEEE Kerala Section, from December 1-3, 2011 at Kollam (Kerala).
- [9]. The International Conference on “Advances in Communications, Embedded Systems and Computing” (ICACEC-2011), Organized by Departments of EC, CSE & IT, Sagar Institute of Research & Technology in collaboration with CSI, Bhopal Chapter and IETE, Bhopal Chapter held on January 14-15, 2011.
- [10]. The International Conference on Electrical Power and Energy Systems” (ICEPES-2010), conducted by MANIT, Bhopal, M.P., Aug. 26-28, 2010, pp. 697-702.

- [11]. The International Conference on Energy optimization and control” (ICEOC-2010), conducted by Government College of Engineering (GEC), Aurangabad (Maharashtra), Dec. 28-30, 2010, pp-323-327.
- [12]. The all India Seminar on “Innovations and Recent Trends in Power and Power Electronics”, organized by Institution of Engineers (India) Rajasthan State Centre, Jaipur and Arya College of Engg. & Information, Jaipur, April 24-25, 2010.
- [13]. National Conference on “Power Electronics and Intelligent Control” Sponsored by MHRD NEW DELHI, organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from September 13 to 14, 2008.

#### **14. NO. OF PhD GUIDING**

S. No.	Name of Student	Title of Thesis	Supervisors	Year of Start
1	Mr. Anubhav Kumar Pandey	Investigation of Economic Feasibility of a Virtual Power Plant	DR. Vinay Kumar Jadoun & DR. Jayalakshmi N. S.	Jan 2021
2	Ms. Nandini K. K.	Optimal Location of Electric Vehicle Charging Station in Grid Tied DC Microgrid with Power Quality Improvement	DR. Vinay Kumar Jadoun & DR. Jayalakshmi N. S.	Jan 2021

#### **15. NO. OF PG DISSERTATIONS THESIS GUIDED**

S. No.	Name of Student	Title of Thesis	Supervisors	Year of Completion
1	Kingshuk Chatterjee	A Novel Prediction Certainty Based Graphical Dissolved Gas Analysis Technique for Oil-filled Power Transformer	Dr. R. K. Jarial & Dr. Vinay Kumar Jadoun	2018
2	Ujjawal Prakash Bhushan	Evaluation of Health Index Assessment of Power Transformer Located in HPSEB Substation	Dr. R. K. Jarial & Dr. Vinay Kumar Jadoun	2018
3	Madhurika Sathe	Investigation of Charging and Discharging of Electric Vehicles in Current Environment	Dr. Vinay Kumar Jadoun	2021
4	Sanjana	Vehicle-to-Grid Strategy for Primary Frequency Control of an Industrial Microgrid: by Implementing Grid Regulation Power Generation Controller (GRPGC)	Dr. Vinay Kumar Jadoun	2022

#### **16. NO. OF PG RMTC LAB**

S. No.	Name of Student	Title of Thesis	Supervisors	Year of Completion
1	Vickey Vardwaj	Vickey Vardwaj	Dr. Vinay Kumar Jadoun	2019
2	Vishakha	Review of Optimization Techniques for Hybrid Wind PV-ESS System	Dr. Vinay Kumar Jadoun	2019
3	P.V.N.R. Varunteja	Comparative-Study Of Distribution Network With Integration Of Renewable Energy	Dr. Vinay Kumar Jadoun	2019
4	Sudheendra H R	Latest Trends in Pmu Placement Techniques	Dr. Vinay Kumar Jadoun	2019
5	Arpita	Capacitive Power Transfer Modelling for Wireless Charging of Electric Vehicles	Dr. Vinay Kumar Jadoun	2020
6	Chandana	Comparative study of battery charging methods of electric vehicles	Dr. Vinay Kumar Jadoun	2020
7	Sanjana	Enhancing Stability and Power Quality of Future Smart Grid with Intermittent Renewable Energy Sources Using Electric Springs	Dr. Vinay Kumar Jadoun	2020
8	Suman	Renewable Energy Sources	Dr. Vinay Kumar Jadoun	2020
9	Jacob John	Analysis of Uncertainty Based Grid Connected Hybrid Microgrid with EV Integration	Dr. Vinay Kumar Jadoun	2022



10	Mandara CK	Solve Load Forecasting problem of Electric Power Distribution System using AI Technique	Dr. Vinay Kumar Jadoun	2022
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#### 17. NO. OF UG PROJECT GUIDED

S. No.	Name of Student	Title of Thesis	Supervisors	Year of Completion	Organization
1	Padma Wangmo	Smart Greenhouse	Dr. Anshul Agrawal & Dr. Vinay Kumar Jadoun	2019	NIT Delhi
2	Amit R Menon, Mehul Deep, Divyata Prasad, Aman Sinha	Lane Detection in Autonomous Cars	Dr. Vivek Shrivastava & Dr. Vinay Kumar Jadoun	2019	NIT Delhi
3	Siddharth Suhas Joshi G Rahul Prashanth	Economic Scheduling of Combined Heat and Power (CHP) Systems	Dr. Vinay Kumar Jadoun	2020	MIT Manipal
4	Piyush Kumar Jha Nipun Sharma	Optimal Scheduling of Microgrid	Dr. Vinay Kumar Jadoun	2020	MIT Manipal
5	Shivank S Misra	Multi Area Economic Dispatch Using Bio Inspired Optimization	Dr. Vinay Kumar Jadoun	2021	MIT Manipal
6	Saaya Dua	Marine Bulk Policy Insurance Automation	Dr. Vinay Kumar Jadoun	2021	MIT Manipal
7	Reitwec Shandilya	POC Custom Explanation with KF Serving & Operations Manager in AI Launchpad	Dr. Vinay Kumar Jadoun	2021	MIT Manipal
8	Archishman Ray	Implementing Continuous Integration/Continuous Delivery using AWS DevOps tools	Dr. Vinay Kumar Jadoun	2021	MIT Manipal
9	Priyam Basu	Table Entity Detection	Dr. Vinay Kumar Jadoun	2022	MIT Manipal
10	Sreeram Warriar	Real Time Distracted Driver Detection Using In Car Images	Dr. Vinay Kumar Jadoun	2021	MIT Manipal
11	Vishal Jain	Implementing Leadsquared As A Consultant	Dr. Vinay Kumar Jadoun	2022	MIT Manipal
12	Shreyans Sinha & Sudeep Kumar Shetty	Classification of CS and PR Class using Supervised and LSTM Machine Learning Models	Dr. Vinay Kumar Jadoun	2022	MIT Manipal

#### 18. PROFESSIONAL ACTIVITIES

- [1]. IEEE Senior Member, USA.
- [2]. IEEE Power & Energy Society (PES), Senior Member.
- [3]. IEEE Smart Grid Community, Senior Member.
- [4]. IEEE Young Professionals, Senior Member.
- [5]. Executive Committee Member IEEE YP Bangalore Section, 2021.
- [6]. Executive Committee Member IEEE WIE Mangalore Sub Section, 2021.
- [7]. Executive committee (EXECOM) of the IEEE Mangalore Subsection for the year 2022.
- [8]. IEEE PES Bangalore Chapter Executive Committee for the year 2022.
- [9]. SAC Chair, IEEE Mangalore Subsection for the year 2022.



## **19. PROFESSIONAL ACHIEVEMENTS**

### **1. Reviewer of Journals**

- [1]. IEEE Transactions on Smart Grid.
- [2]. IEEE Systems Journal
- [3]. IEEE Access
- [4]. IET Generation Transmission & Distribution.
- [5]. IET Renewable Power Generation.
- [6]. IET Signal Processing.
- [7]. IET, The Journal of Engineering
- [8]. Electric Power Systems Research, Elsevier.
- [9]. International Journal of Electrical Power and Energy Systems, Elsevier.
- [10]. International Transactions on Electrical Energy Systems, John Wiley & Sons Ltd.
- [11]. Electric Power Components and Systems, Taylor and Francis.
- [12]. Energy Conversion and Management, Elsevier.
- [13]. International Journal of Energy, Elsevier.
- [14]. Renewable Energy, Elsevier.
- [15]. Applied Energy, Elsevier.
- [16]. Neurocomputing, Elsevier.
- [17]. Journal of Experimental & Theoretical Artificial Intelligence, Taylor and Francis.
- [18]. Engineering Optimization, Taylor and Francis.
- [19]. Frontiers of Information Technology & Electronic Engineering, Springer.
- [20]. Journal of Electrical Engineering & Technology, the Korean Institute of Electrical Engineers.
- [21]. International Journal of Computing Science and Mathematics (IJCSM), Inderscience Online.
- [22]. International Journal of Electrical and Computer Engineering (IJECE), Universities Ahmad Dahlan, Yogyakarta, Indonesia.
- [23]. International Journal of Cogent Engineering, Taylor and Francis.
- [24]. International Journal of Information Technology, Springer.
- [25]. Journal of Low Frequency Noise, Vibration and Active Control
- [26]. Journal of Cleaner Production, Elsevier.
- [27]. Sustainable Cities and Society, Elsevier.
- [28]. Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology
- [29]. Energy Strategy Reviews, Elsevier.
- [30]. Energy Reports, Elsevier
- [31]. Renewable & Sustainable Energy Reviews, Elsevier
- [32]. Sustainable Cities and Society, Elsevier
- [33]. Cogent Engineering
- [34]. Journal of Intelligent & Fuzzy Systems
- [35]. Sustainability MDPI
- [36]. Symmetry, MDPI
- [37]. Energies, MDPI
- [38]. Materials, MDPI
- [39]. Sensors, MDPI
- [40]. Electronics, MDPI

### **2. Reviewer of Conferences**

- [1]. IEEE WORLD CONGRESS ON COMPUTATIONAL INTELLIGENCE WCCI2022 18-23 July, 2022 Centro Congressi Padova, Italy.
- [2]. 2022 IEEE 6th International Conference on Condition Assessment Techniques in Electrical Systems (IEEE CATCON 2022) is organized by National Institute of Technology Durgapur, technically co-sponsored by IEEE Dielectrics and Electrical Insulation Society (DEIS) Kolkata Chapter, and financially co-sponsored by IEEE Kolkata Section. It will be held during December 17-19, 2022 at National Institute of Technology Durgapur.

- [3]. 8th International Workshop on Mobile Applications (MobiApps 2022), 22-24 Aug 2022, Rome, Italy (and Online)
- [4]. 3ICT2022 (2022 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)) Bahrain.
- [5]. 2022 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETSYS), ORGANISED BY Applied Science University (ASU), Bahrain, TECHNICALLY SPONSORED BY IEEE, Bahrain Section, 22 - 23 June 2022, Kingdom of Bahrain, Applied Science University (ASU), Bahrain.
- [6]. IEEE World Congress on Computational Intelligence 2022 which will take place in Padua, Italy from 7/18/2022 to 7/23/2022.
- [7]. The ninth International Power Electronics Conference, IPEC-Himeji 2022-ECCE Asia-, will be held from May 15 to May 19, 2022 in Himeji, Japan.
- [8]. 2021 International Conference On Innovation And Intelligence For Informatics, Computing, And Technologies 3ICT 2021 (Virtual-Free Conference) Technically Sponsored by IEEE Bahrain Section, and The Institution of Engineering and Technology (IET, UK) (In collaboration with Edge Hill University, King Abdulaziz University, Sultan Qaboos University, and Dubai University) 29-30 September 2021 - Bahrain, University of Bahrain.
- [9]. 8th International Conference on Signal Processing and Integrated Networks (SPIN 2021) 26-27 August 2021, Department of Electronics and Communication Engineering, ASET, Amity University, Sec-125, Noida, Delhi-NCR, India
- [10]. RTU TEQIP-III Sponsored 2nd International Conference on Artificial Intelligence: Advances and Applications (ICAIAA 2021) Jointly Organized in Virtual Format by Poornima College of Engineering, Jaipur and Rajasthan Technical University Kota in Association with Soft Computing Research Society MARCH 27-28, 2021
- [11]. IEEE Congress on Evolutionary Computation (IEEE CEC 2021) 28th June-1 July, 2021 Kraków, Poland (VIRTUAL)
- [12]. The Second IEEE International Conference on Smart Technologies for Power, Energy and Control will be held in the Department of Electrical and Electronics Engineering, Chouksey Engineering College, Bilaspur, Chhattisgarh, during 19th to 22th December 2021.
- [13]. International Conference on Electronics, Computing and Communication Technologies, CONECCT 21 conference organized by of the IEEE Bangalore Section, India during JULY 9-11, 2021
- [14]. 10<sup>th</sup> International Conference on Data Science, Technology and Applications (DATA), 6<sup>th</sup> to 8<sup>th</sup> July 2021, Lieusaint-Paris, France.
- [15]. The 2 International Conference of Sustainability and Resilience Technology and innovation in buildings design. Wed, Thu 11-12 Nov. 2020, University of Bahrain.
- [16]. The Sixth International Conference on E-Learning (ECONF20) 6th – 7th December 2020, Online, Bahrain.
- [17]. IEEE PEDES 2020 Power Electronics Drives and Energy System 16-19 December 2020 Jaipur, Rajasthan, India Malaviya National Institute of Technology, Jaipur.
- [18]. 2020 International Conference On Innovation And Intelligence For Informatics, Computing, And Technologies 3ICT 2020 (Virtual Conference-Free) Technically Sponsored by IEEE Bahrain Section, and The Institution of Engineering and Technology (IET, UK) (In collaboration with Edge Hill University, King Abdulaziz University, Sultan Qaboos University, and Dubai University) 20-21 December 2020 - Bahrain, University of Bahrain.
- [19]. THE 2020 International Conference On Decision Aid Sciences And Applications (DASA'20) 8th – 9th November 2020, Online, College of Business Administration at the University of Bahrain, Kingdom of Bahrain
- [20]. The First IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC) 2020 will be held in the Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur, M.S., India during 25th to 26th September 2020. This conference is Financially Sponsored by IEEE Industry Applications Society (IAS) and Technically Sponsored by IEEE Power Electronics Society (PELS). It is jointly organized by IEEE Bombay Section Joint Chapter of PELS/IES and Visvesvaraya National Institute of Technology, Nagpur, M.S., India.

- [21]. FEST 2020 2nd International Conference on Future of Engineering Systems and Technologies, (FEST2020) December 18-19, 2020.
- [22]. 1st International Conference on Energy, Material Sciences & Mechanical Engineering – 2020 EMSME-2020 October 31 - November 01, 2020
- [23]. JIFS Special Issue: Digital Transformation through Advances in Artificial Intelligence and Machine Learning DTTAAIML-2020
- [24]. TEQIP-III Sponsored Electric Power and Renewable Energy Conference-2020 (EPREC-2020) 29th - 30th May 2020
- [25]. 2020 IEEE Congress on Evolutionary Computation (IEEE CEC 2020) in Glasgow, UK, July 19-24, 2020.
- [26]. "International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control" (PARC 2020) to be held at GLA University, Mathura, India from February 28th-29th, 2020 technically sponsored by IEEE UP Section.
- [27]. 7th International Conference on Signal Processing and Integrated Networks (SPIN 2020) 27 - 28 February 2020 Department of Electronics and Communication Engineering, ASET, Amity University, Sec-125, Noida, Delhi-NCR, India.
- [28]. Two days 1st International conference on Future of Engineering systems and Technologies (FEST-2019)" on 21st-22nd December 2019 to be held at 'G L Bajaj Institute of Technology and Management, Greater Noida'.
- [29]. 2019 IEEE Congress on Evolutionary Computation will be held on Wellington, New Zealand on 10-13 June 2019.
- [30]. First International Conference on Intelligent Computing Techniques for Smart Energy Systems (ICTSES 2018) organized by MNIT Jaipur and Manipal University Jaipur will be held on 22nd -23rd December 2018.
- [31]. 2nd annual IEEE-Texas Power and Energy Conference (TPEC) will be held on February 8-9, 2018 in the Memorial Student Center (MSC) on the campus of Texas A&M University, College Station, Texas, USA.
- [32]. International Conference on Signals, Machines and Automation (SIGMA -2018) will be held at Netaji Subash Institute of Technology (NSIT) Delhi, during, 23-25 February 2018.
- [33]. 7th International Conference on Power Systems, 2017 (ICPS 2017) will be held at College of Engineering Pune (CoEP), Shivajinagar, India from 21st to 23rd December 2017. ICPS 2017 is technically co-sponsored by IEEE Pune Section and IEEE PES/IAS Chapter.
- [34]. International Conference on Modern Trends in Power Engineering and Green Energy (ICMPG' 17) to be held during 27-28 January 2017, Kochi, India.
- [35]. 5th International Conference on Power Science and Engineering (ICPSE 2016), Dec 14-17, 2016, Venice, Italy.
- [36]. 2nd International Conference on "Recent Advances and Innovations in Engineering - ICRAIE 2016" to be held during 23-25, December - 2016 at Poornima College of Engineering and Poornima University, Jaipur, Rajasthan, India.
- [37]. International Conference on Advancement in Energy, Drive & Control (ICAEDC-2016) held on NOVEMBER 11th-12th, 2016, in Department of Electrical & Electronics Engineering I.T.S Engineering College, Greater Noida.
- [38]. Third Southern African Solar Energy Conference (SASEC2015), Skukuza, Kruger National Park, South Africa, 11-13 May 2015.

## **20. MEMBER OF ORGANIZING COMMITTEE**

- [1]. Organizing Committee member for Symposium & Hackathon "AI for Social Good" jointly organized by IEEE Bangalore Section and Centre for development of Advanced Computing, Bangalore.
- [2]. 8th International Workshop on Mobile Applications (MobiApps 2022), 22-24 Aug 2022, Rome, Italy (and Online)
- [3]. 9th International Conference on Signal Processing and Integrated Networks, SPIN-2022 will be organized by Amity University, Noida, on 25-26 August 2022

- [4]. The 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2022) will be organized by Department of Electrical Engineering, GLA University, Mathura, India during 21st-22nd January, 2022 at GLA University, Mathura, India
- [5]. 2021 Third International Sustainability and Resilience Conference: Climate Change (SRC'21 ) University, November 15-16, 2021, Online of Bahrain
- [6]. 3ICT2022 (2022 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)) Bahrain.
- [7]. 2022 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETIS), ORGANISED BY Applied Science University (ASU), Bahrain, TECHNICALLY SPONSORED BY IEEE, Bahrain Section, 22 - 23 June 2022, Kingdom of Bahrain, Applied Science University (ASU), Bahrain.
- [8]. IEEE World Congress on Computational Intelligence 2022 which will take place in Padua, Italy from 7/18/2022 to 7/23/2022.
- [9]. The ninth International Power Electronics Conference, IPEC-Himeji 2022-ECCE Asia-, will be held from May 15 to May 19, 2022 in Himeji, Japan.
- [10]. THE 2021 International Conference on Decision Aid Sciences And Applications (DASA'21) 7th – 8th December 2021, Online Technical Sponsored By Baharain IEEE Section In College Of Business Administration at The University Of Bahrain.
- [11]. International Conference on Sustainable Islamic Business and Finance (SIBF 2021) 5-6 December 2021, University of Bahrain, Online, Technically Sponsored by IEEE Bahrain Section
- [12]. 2021 Third International Sustainability and Resilience Conference: Climate Change (SRC'21 ) University, November 15-16, 2021, Online of Bahrain
- [13]. Two days 2nd International Conference on Future of Engineering Systems and Technologies (FEST) 2021 to be held from 18-19 December 2021 at IGDUTW New Delhi, India
- [14]. Member of Technical Programme Committee of 2021 International Conference On Innovation And Intelligence For Informatics, Computing,And Technologies 3ICT 2021 (Virtual-Free Conference) Technically Sponsored by IEEE Bahrain Section, and The Institution of Engineering and Technology (IET, UK) (In collaboration with Edge Hill University, King Abdulaziz University, Sultan Qaboos University, and Dubai University) 29-30 September 2021 - Bahrain, University of Bahrain
- [15]. The Second IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2021) will be held in the Department of Electrical and Electronics Engineering, Chouksey Engineering College, Bilaspur, Chhattisgarh, during 19th to 22th December 2021.
- [16]. 8th International Conference on Signal Processing and Integrated Networks (SPIN 2021) 26-27 August 2021, Department of Electronics and Communication Engineering, ASET, Amity University, Sec-125, Noida, Delhi-NCR, India
- [17]. IEEE Congress on Evolutionary Computation 28.06-1.07.2021 Kraków, Poland (VIRTUAL)
- [18]. International Conference on Computational Intelligence and Emerging Power System (ICCIPS 2021).
- [19]. The Sixth International Conference on E-Learning (ECONF20) 6th – 7th December 2020, Online, Bahrain.
- [20]. Member of Technical Programme Committee of the 10th International Conference on Data Science, Technology and Applications (DATA), 6th to 8th July 2021, Lieusaint-Paris, France.
- [21]. Member of Technical Programme Committee of the 2020 International Conference On Innovation And Intelligence For Informatics, Computing,And Technologies 3ICT 2020 (Virtual Conference-Free) Technically Sponsored by IEEE Bahrain Section, and The Institution of Engineering and Technology (IET, UK) (In collaboration with Edge Hill University, King Abdulaziz University, Sultan Qaboos University, and Dubai University). 20-21 December 2020 - Bahrain, University of Bahrain.
- [22]. Member of Technical Programme Committee of the The First IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC) 2020 will be held in the Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur, M.S., India during 25th to 26th September 2020.
- [23]. Member of Technical Programme Committee of the FEST 2020 2nd International Conference on Future of Engineering Systems and Technologies, (FEST2020) December 18-19, 2020.
- [24]. Member of Technical Programme Committee of the Ist International Conference on Energy, Material Sciences & Mechanical Engineering – 2020 EMSME-2020 October 31 - November 01, 2020.

- [25]. Member of Technical Programme Committee of the JIFS Special Issue: Digital Transformation through Advances in Artificial Intelligence and Machine Learning DTAAIML-2020.
- [26]. Member of Technical Programme Committee of the TEQIP-III Sponsored Electric Power and Renewable Energy Conference-2020 (EPREC-2020) 29th - 30th May 2020.
- [27]. Member of Technical Programme Committee of the THE 2020 INTERNATIONAL CONFERENCE ON DECISION AID SCIENCES AND APPLICATIONS (DASA'20) organize by College of Business Administration at the University of Bahrain TECHNICAL SPONSORSHIP by Bahrain IEEE Section during 8th – 9th November 2020, Online.
- [28]. Member of Technical Programme Committee of 2020 INTERNATIONAL CONFERENCE ON INNOVATION AND INTELLIGENCE FOR INFORMATICS, COMPUTING, AND TECHNOLOGIES 3ICT 2020 (Virtual Conference) Technically Sponsored by IEEE Bahrain Section, and The Institution of Engineering and Technology (IET, UK) (In collaboration with Edge Hill University, King Abdulaziz University, Sultan Qaboos University, and Dubai University) 20-21 December 2020 - Bahrain, University of Bahrain.
- [29]. Member of Technical Programme Committee of the JIFS Special Issue: DTAAIML-2020 (Digital Transformation through Advances in Artificial Intelligence and Machine Learning).
- [30]. Member of Technical Programme Committee of the EMSME 2020 (1ST INTERNATIONAL CONFERENCE ON ENERGY, MATERIAL SCIENCES & MECHANICAL ENGINEERING - 2020) organize by NIT Delhi during October 31 - November 01, 2020.
- [31]. Member of Technical Programme Committee of The International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2020) will be organized by Department of Electrical Engineering, GLA University, Mathura, India during 28th-29th February 2020 at GLA University, Mathura, India.
- [32]. Member of Technical Programme Committee of 7th International Conference on Signal Processing and Integrated Networks (SPIN 2020) 27 - 28 February 2020 Department of Electronics and Communication Engineering, ASET, Amity University, Sec-125, Noida, Delhi-NCR, India.
- [33]. Member of Technical Programme Committee of Member of 8th International Conference on Power Science and Engineering on December 2-4, 2019, University College Dublin, Ireland.
- [34]. Member of Technical Programme Committee of 7th International Conference on Power Science and Engineering (ICPSE' 2018) to be held during August 20-22, 2018, Vienna, Austria.
- [35]. Member of Technical Programme Committee of 6th International Conference on Power Science and Engineering (ICPSE' 2017) to be held during Dec 2-4, 2017, St. Petersburg, Russia.
- [36]. Member of Technical Programme Committee of 2nd International Conference on "Recent Advances and Innovations in Engineering - ICRAIE 2016" to be held during 23-25, December - 2016 at Poornima College of Engineering and Poornima University, Jaipur, Rajasthan, India.
- [37]. Member of Technical Programme Committee of 5th International Conference on Power Science and Engineering (ICPSE' 2016) to be held during Dec 14-17, 2016, Venice, Italy.
- [38]. Member of Technical Programme Committee of International Conference on Modern Trends in Power Engineering and Green Energy (ICMPG' 17) to be held during 27-28 January 2017, Kochi, India.
- [39]. Member of Technical Programme Committee of 12th INDIACom – 2018, 05th International Conference on Computing for Sustainable Global Development in association with IEEE Delhi Section, GGSIP University, IETE Delhi Centre, ISTE Delhi Section, CSI Region – I and CSI Divisions – I, II, III, IV & V to be held during 14st – 16th March, 2018.
- [40]. Member of Technical Programme Committee of 11th INDIACom – 2017, 04th International Conference on Computing for Sustainable Global Development in association with IEEE Delhi Section, GGSIP University, IETE Delhi Centre, ISTE Delhi Section, CSI Region – I and CSI Divisions – I, II, III, IV & V to be held during 01st – 03rd March, 2017.
- [41]. Member of Advisory Committee of International Conference on Advancement in Energy, Drive & Control (ICAEDC-2016) held on NOVEMBER 11th-12th, 2016, in Department of Electrical & Electronics Engineering I.T.S Engineering College, Greater Noida.
- [42]. Member of Emerging Technology for power system operation & energy management organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from June 17 to 23, 2013.

- [43]. Member of Operation and Control of Modern Power System (OCMPS-2013) organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.) from March 07 to 11, 2013.
- [44]. Member of 3rd National Conference on Power Electronics and Intelligent Control (NCPEIC-12) organized by department of Electrical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur (RAJ.).
- [45]. Member of organizing Committee of Advances in Communications, Embedded Systems and Computing (ICACEC-2011), Sagar Institute of Research & Technology (SIRT), Bhopal (M. P.).

## **21. MEMBER OF DEPARTMENTAL COMMITTEE**

- [1]. Course Coordinator of Btech Power System Analysis 2022, MIT Manipal.
- [2]. Coordinator of B.Tech Final Year Project 2022, MIT Manipal.
- [3]. NBA Accreditation 2022, MIT Manipal
- [4]. Faculty Advisor Section B, B. Tech. - III Semester, 2021.
- [5]. DCC Meeting Secretary 2021, MIT Manipal
- [6]. NBA Accreditation 2021, MIT Manipal
- [7]. Coordinator of B.Tech Final Year Project 2021, MIT Manipal.
- [8]. Coordinator of Department Budget 2021, MIT Manipal.
- [9]. Coordinator of Sports Activity Committees of MIT-FOA Faculty Club, MIT Manipal.
- [10]. Member of Doctoral Advisory Committee in the Department of Electrical & Electronics Engg. MIT Manipal.
- [11]. Assist Research Activities in the Department of Electrical & Electronics Engg. MIT Manipal.
- [12]. Member of committee constituted to propose the area required for various offices/laboratories/room etc. for the department of Electrical and Electronics Engineering in the permanent campus of NIT Delhi 2018.
- [13]. Members of committee to coordinate and filing of the required data for NIRF Ranking 2019.
- [14]. Member of Anti-ragging Committee for the Session-2018 in National Institute of Technology, Delhi.
- [15]. Faculty in Charge for selection of Class Representatives of Student Council of 2018 in NIT Delhi.
- [16]. Member of Anti-Ragging Squad to check ragging incidents and to maintain discipline in the institute, in NIT Delhi, 2018
- [17]. Faculty Advisor/Coordinator of 3<sup>rd</sup> Year students of EEE branch, NIT Delhi.
- [18]. Member of Departmental Academic Committee – UG and Departmental Post-Graduate Committee – DPGC of EEED, NIT Delhi.
- [19]. Secretary of Class Review Committee (CRC) - UG (DAC-UG) of EEED, NIT Delhi.
- [20]. Member of Class Review Committee (CRC) - UG (DAC-UG) & PG of EEED, NIT Delhi.
- [21]. Member of Transportation and Registration Committee of International Conference on Emerging Trends in Engineering Innovation & Technology Management (ICET:EITM-2017) organized by Department of Electrical Engineering, NIT Hamirpur, during Dec. 16-18, 2017.
- [22]. Co-coordinator of Two days workshop on “Modern Diagnostic Tools for Assessing Health of Electrical Apparatus” for HPSEBL, Shimla Engineers under TIFAC-CORE on Power Transformer Diagnostics being held on September 02-03, 2017.
- [23]. Member of evaluation committee to Mid Term thesis evaluation of M. Tech 2<sup>nd</sup> year Power System students 2018.
- [24]. Member of evaluation committee to End Term thesis evaluation of M. Tech 2<sup>nd</sup> year Power System students 2017.
- [25]. Member in Lab. Experiment Committee of the Six Day Skill Development Program being organized by EED, NIT Hamirpur from 18<sup>th</sup> July 2017 to 23<sup>rd</sup> July 2017.
- [26]. OIC for using Turnitin Software for checking similarity index of the thesis of the students July 2017.
- [27]. Responsibility to establish Illumination lab 2017.
- [28]. Member of committee for NBA Accreditation of PG course in National Institute of Technology, Hamirpur, Himachal Pradesh in 2016-2017.
- [29]. Member to establish IEEE student branch chapter in National Institute of Technology, Hamirpur, Himachal Pradesh.

- [30]. Member of evaluation committee to Mid Term thesis evaluation of M. Tech 2<sup>nd</sup> year Power System students 2016.
- [31]. External examiner for End semester practical examinations of the Electrical Engineering Department in National Institute of Technology, Hamirpur, Himachal Pradesh scheduled to be held from 21/11/16 to 25/11/16.
- [32]. Member of Anti-ragging Committee for the Session-2017 in National Institute of Technology, Hamirpur, Himachal Pradesh.
- [33]. Member of weed out committee of the Electrical Engineering Department in National Institute of Technology, Hamirpur, Himachal Pradesh in the session 2016-2017.
- [34]. External examiner for End semester practical examinations of the Electrical Engineering Department in National Institute of Technology, Hamirpur, Himachal Pradesh scheduled to be held from 25/04/16 to 29/04/16.
- [35]. Member of sub-committee for NBA Accreditation of B. Tech. Electrical & Electronics Engineering in National Institute of Technology, Hamirpur, Himachal Pradesh in 2015-2016.
- [36]. Member of Registration Committee of two days workshop on “Industrial Automation including PLC and Drives Technology (IAPDT-2015)” in collaboration with IATC Siemens on 21<sup>st</sup> & 22<sup>nd</sup> March, 2015 of the Electrical Engineering Department in National Institute of Technology, Hamirpur, Himachal Pradesh.
- [37]. Participant for 5 day training program on “Developing competence of faculty for preparing entrepreneurs among students” during July 11-15, 2015 at National Institute of Technology, Hamirpur, Himachal Pradesh.

## **22. EXAMINER**

- [1] External Examiner for PhD presentation at SOEEE, REVA University July 2022.
- [2] External Examiner for M. Tech (DECE) Project presentation in ECE department, MIT Manipal.
- [3] External Examiner for M. Tech (DECE) Project presentation in Mechatronics department, MIT Manipal.

## **23. AWARDS AND HONORS**

### ***i. Research Award***

- [1]. Certificate of Appreciation for being the Judge during I2CONECCT 2022 (Industry Institute Conclave on Electronics, Computational and Communication Technologies) an Intercollegiate Project Exhibition and Competition held at National Institute of Technology Karnataka, Surathkal, India on June 18, 2022.
- [2]. Certificate of Appreciation for demonstrating valuable mentoring for Hackathon “AI for Social Good” jointly organized by IEEE Bangalore Section and Centre for Development of Advanced Computing, Bangalore.
- [3]. Best Researcher Award" in the International Scientist Awards on Engineering, Science, and Medicine which is going to be held on 16 & 17-Jul-2021 in Mysore, India.
- [4]. Best Researcher Award" for "International Research Awards on Science Health and Engineering" ScienceFather. 2021
- [5]. IEEE Young Professional Executive committee member, IEEE Bangalore Section 2021.
- [6]. Elevated to the grade of IEEE Senior member in Oct 2020.
- [7]. Branch-Coordinator in IEEE NIT Delhi student branch.
- [8]. Examiner for conducting the Viva-Voce for B. Tech. students in IIIT, Una.
- [9]. “Certificate of Outstanding Contribution in Reviewing award” in recognition of the contributions made to the quality of the journal by Energy, Elsevier Year, December – 2017.
- [10]. “Certificate of Outstanding Contribution in Reviewing award” in recognition of the contributions made to the quality of the journal by Renewable and Sustainable Energy Reviews, Elsevier Year – 2017.
- [11]. “Certificate of Outstanding Contribution in Reviewing award” in recognition of the contributions made to the quality of the journal by Energy, Elsevier Year – April – 2017.
- [12]. “Certificate of Outstanding Contribution in Reviewing award” in recognition of the contributions made to the quality of the journal by Renewable Energy, Elsevier Year – 2017.
- [13]. “Certificate of Outstanding Contribution in Reviewing award” in recognition of the contributions made to the quality of the journal by International Journal of Electrical Power and Energy Systems, Elsevier Year – 2017.

- [14]. "Certificate of Outstanding Contribution in Reviewing award" in recognition of the contributions made to the quality of the journal by Electric Power Systems Research, Elsevier Year – 2016.
- [15]. "Certificate of Outstanding Contribution in Reviewing award" in recognition of the contributions made to the quality of the journal by Energy Conversion and Management, Elsevier Year – 2016.
- [16]. "2016 EPSR Best Reviewer Certificate" for Electric Power Systems Research reviewer recognition award 2016.

**ii. Best Paper Award**

- [1]. PhD Student Awarded of DST INSPIRE Fellowship to the Research Students [IF190938] September 2021.
- [2]. Best Paper Award in First International Conference on Computations in Materials and Applied Engineering (CMAE-2021) held during 26-27th June 2021.
- [3]. B. Tech Student got best paper award in 1st National Conference on Advances in Mechanical Engineering NCAME – 2019 has been held on 16th March 2019 in NIT Delhi.

**iii. Session Chair & Chief Guest**

- [1]. Session Chair in 2022 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2022 IEEE Discover) organized by IEEE Mangalore Subsection at J.N.N. Collage of Engineering, Shivamogga, Karnataka during October 14-15, 2022.
- [2]. Certificate of appreciation for being Chief Guest at the inaugural function of National Level paper presentation contest in Future Trends in ICCT and its applications in II, Management and Education organized by IEEE Srinivas University Student Branch in association with IEEE Mangalore Sub section on June 02, 2022
- [3]. Session Chair in the 2<sup>nd</sup> IEEE international Conference on Power Electronics & IoT Applications in Renewable Energy and Its Control (PARC 2022) held at GLA University, mathura, UP, India during 21<sup>st</sup> -22<sup>nd</sup> January, 2022.
- [4]. Session Chair in the International Conference on Future of Engineering Systems and technologies (FEST 2021 jointly organized by FIST, Ned Delhi and Department of Mechanical & Automation Engineering, IGDTUW, Delhi on 18-19 December 2021.
- [5]. Session Chair in the International Conference on Communication and Intelligent System held online during December 18-19, 2021 ICCIS2021\_Session Chair Certificate\_Page\_16
- [6]. Session Co-Chair at the IEEE Energy Conversion Congress and Exposition – Asia (ECCE-Asia 2021) held from 24th to 27th May 2021 in Singapore.
- [7]. Session Chair in the International Conference on Artificial Intelligence: Advances and Applications (ICAIAA 2021) held during March 27-28, 2021 in India.
- [8]. Session Chair in 1st International Conference on Energy, Materials Sciences and Mechanical Engineering organized by Department of Mechanical Engineering, Energy, Materials Sciences and Mechanical Engineering (EMSME - 2020), October 30th - November 01st, 2020, Organized by National Institute of Technology Delhi.
- [9]. Session Chair in 2nd International Conference on Future of Engineering Systems and Technologies (FEST), 2020 December 18-19, 2020, Organized by FIST New Delhi in association with NIET, Greater Noida.
- [10]. Session Chair in "International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control" (PARC 2020) to be held at GLA University, Mathura, India from February 28th-29th, 2020 technically sponsored by IEEE UP Section.
- [11]. Session Co-Chair in 1st National Conference on Advances in Mechanical Engineering NCAME – 2019 has been held on 16th March 2019 in NIT Delhi.
- [12]. Session Chair in "International Conference On Intelligent Computing Techniques for Smart Energy Systems (ICTSES) 2018" has been held on 22nd -23rd December 2018 in Manipal University Jaipur, India
- [13]. MHRD Scholarship from Feb 2011 to Nov. 2014, for Ph. D. in the Department of Electrical Engineering, MNIT, Jaipur, India.



- [14]. MHRD Scholarship from 2008 to 2010, for M. Tech Degree in the Department of Electrical Engineering, MNIT, Jaipur, India.
- [15]. Qualified GATE examination in 2008.
- [16]. Secured Second rank in class XII in M.T.T.H.S. school, Sehore (M.P.) during 2001-2002.
- [17]. Secured First rank in class X in M.T.T.H.S. school, Sehore (M.P.) during 1999-2000.

**iv. Reviewer Recognition**

- [1]. Contribution as Reviewer in 2nd Electric Power and Renewable Energy Conference (EPREC-2021) May 28-30, 2021.
- [2]. "Certificate of Reviewing award" in recognition of the review made for the International Journal of Electrical Power and Energy Systems, Elsevier in 2020.
- [3]. "Certificate of Reviewing award" in recognition of the review made for the Energy, Elsevier in 2020.
- [4]. "Certificate of Reviewing award" in recognition of the review made for the Electric Power Systems Research, Elsevier in 2020.
- [5]. "Certificate of Reviewing award" in recognition of the review made for the Renewable Energy, Elsevier in 2020.
- [6]. Certificate of Excellence in Reviewing in recognition of an outstanding contribution to the quality of the journal Asian Journal of Probability and Statistics 2020.
- [7]. Contribution as Reviewer in EPREC-2020: Electric Power and Renewable Energy Conference-2020 EE Department, NIT Jamshedpur India, May 29-30, 2020
- [8]. "Certificate of Reviewing award" in recognition of the review made for the International Transactions on Electrical Energy Systems Year –2019.
- [9]. "Certificate of Reviewing award" in recognition of the review made for the Energy Reports, Elsevier Year – June 2019.
- [10]. "Certificate of Reviewing award" in recognition of the review made for the Electric Power Systems Research, Elsevier Year – 2018.
- [11]. "Certificate of Reviewing award" in recognition of the review made for the International Journal of Electrical Power and Energy Systems, Elsevier Year – 2018.
- [12]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Electric Power Components and Systems, T&F, Year – 2018.
- [13]. "Certificate of Reviewer acknowledgement" in the 2018 IEEE Texan Power and Energy Conference (TPEC-2018).
- [14]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Energy Conversion and Management, Elsevier Year – June 2018.
- [15]. "Certificate of Reviewing award" in recognition of the review made for the journal by Energy, Elsevier Year – 2017.
- [16]. "Certificate of Reviewing award" in recognition of the review made for the journal by Applied Energy, Elsevier Year – 2017.
- [17]. "Certificate of Reviewing award" in recognition of the review made for the journal by Renewable and Sustainable Energy Reviews, Elsevier Year – 2017.
- [18]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Journal of Experimental & Theoretical Artificial Intelligence, T&F, Year – 2017.
- [19]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Engineering Optimizations, T&F, Year – 2017.
- [20]. "Certificate of Reviewing award" in recognition of the review made for the journal by Renewable Energy, Elsevier Year – 2016.
- [21]. "Reviewer Recognition Award" for in recognition of review made to the journal given by International Journal of Electrical Power and Energy Systems, Elsevier Year – 2016.
- [22]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Electric Power Systems Research Journal, Elsevier Year – 2016.
- [23]. "Reviewer Recognition Award" for in recognition of review made to the journal given by Energy Conversion and Management Journal, Elsevier Year – 2016.

#### **24. SPORTS AWARDS**

- [1]. Secured 2<sup>nd</sup> prize in the 100 mts Race organized by the MIT-FOA Faculty Club during the year 2019.
- [2]. Secured 3<sup>rd</sup> prize in the 200 mts Race organized by the MIT-FOA Faculty Club during the year 2019.
- [3]. Secured 3<sup>rd</sup> prize in the Long Jump organized by the MIT-FOA Faculty Club during the year 2019.
- [4]. Member of winner's up team in Inter Branch Volleyball Tournament held in the Academic Session 2013-2014 in MNIT, Jaipur (RAJ).
- [5]. Member of runner's up team in Inter Branch Cricket Tournament held in the Academic Session 2013-2014 in MNIT, Jaipur (RAJ).
- [6]. Member of runner's up team in Inter Branch Cricket Tournament held in the Academic Session 2008-2009 in MNIT, Jaipur (RAJ).
- [7]. Achieved 3<sup>rd</sup> position in 100 mts in Inter school Athletics meet, in M.T.T.H.S. school, Sehore (M.P.) during 1999-2000.

#### **25. COURSES TAUGHT**

- [1]. Power System Analysis (UG Course) in Electrical & Electronics Engineering Department, MIT, Manipal, India.
- [2]. Generation Transmission & Distribution (UG Course) in Electrical & Electronics Engineering Department, MIT, Manipal, India.
- [3]. Power System Operation & Control (PG course) in Electrical & Electronics Engineering Department, MIT, Manipal, India.
- [4]. Electrical Machine -1(UG Course) in Electrical & Electronics Engineering Department, MIT, Manipal, India.
- [5]. Energy Auditing (UG Course) in Electrical & Electronics Engineering Department, MIT, Manipal, India.
- [6]. Real Time Control in Power System (UG course) in Electrical & Electronics Engineering Department, NIT, Delhi, India.
- [7]. Power System (UG course) in Electrical & Electronics Engineering Department, NIT, Delhi, India.
- [8]. Power System Operation & Control (UG course) in Electrical Engineering Department, NIT, Delhi, India.
- [9]. Power Quality (PG course) in Electrical & Electronics Engineering Department, NIT, Delhi, India.
- [10]. Power System Operation & Control (UG course) in Electrical Engineering Department, NIT, Hamirpur, India.
- [11]. Basic Electrical Engineering (UG course) in Electrical Engineering Department, NIT, Hamirpur, India.
- [12]. Neural Network & Fuzzy Logic (UG course) in Electrical Engineering Department, NIT, Hamirpur, India.
- [13]. AI Techniques and Applications (PG course) in Electrical Engineering Department, NIT, Hamirpur, India.
- [14]. Optimization Techniques (UG course) in Electrical Engineering Department, NIT, Hamirpur, India.

#### **26. SOFT SKILL PROFICIENCY**

- [1]. Operating Systems - Windows (98, 2000, XP, Vista, 2007)
- [2]. Tools - MATLAB, MS Office, PSAT, Mi POWER, Homer
- [3]. Languages - C, C++

Place: Manipal

(Dr. Vinay Kumar Jadoun)