

EEE Department
Details of Annual Report 2020

1. List of faculty member who have completed M.Tech /Ph.D. in 2020.

Faculty members who have completed Ph.D.

Dr. Neelam Kassarwani

2. List of faculty member pursuing Ph.D.

Faculty members pursuing Ph.D. are

Mr. Udyan Kumar Jha

Mr. Sunil Kumar Pandey

Mr. Ashok Goyal

Mr. Sheersh Kumar Garg

Mr. Jitender Lather

Ms. Poonam Juneja

Ms. Supriya Sharma

Ms. Shashibala Aggarwal

Ms. Monika Bhardwaj

Mr. Ravi Sharma

Mr. Lalit Agarwal

Mr. Chandrakesh Shukla

3. List of non-teaching staff who have acquired new qualification in 2020.

NIL

4. List of seminars/workshops organized by the department in 2020.

NIL

5. List of publications of faculty and students in 2020.

- **Hariharan, S & Gupta, Monika**, “Improving Cloud-based ECG, Monitoring, Detection and Classification using GAN”, Fusion: Practice and Applications (FPA), 2(2), 42-49. DOI: 10.5281/zenodo3944661.
- **Monika Gupta, Anjali Raghav, Sharad Vaish** “Survival Prediction of Cancer Patient Using Machine Learning” accepted in MECHATONIS SYSTEM AND CONTROL in nov 2020.
- **Monika Gupta**, Smriti Srivastava, Gopal Chaudhary, Manju Khari, Rubén González Crespo Voltage ,”Regulation using Probabilistic and Fuzzy Controlled Dynamic Voltage Restorer for Oil and Gas Industry”, Processes World Scientific Publishing Vol 28, Supplement 2, Dec 2020.
- **N. Nagpal**, P. Siano, P. Khetarpal, S. Kaur, **H. Nagpal**, “Short-Term Electricity Demand Prediction Using Modified Hidden Markov Model”, pp. 90-90, Proceedings of 3rd International Conference on Renewable Energy 2020, Rome, Italy, held online on November 25-27, 2020, ISSN 2609-374X.
- **R. S. Yadav, G. Singla, M. Verma, N. Nagpal, R. Sharma**, “ Analysis of Cascade Failure and DG placement for its Mitigation ”, pp. 94-94, Proceedings of

3rd International Conference on Renewable Energy 2020, Rome, Italy, held online on November 25-27, 2020, ISSN 2609-374X.

- P. Khetarpal, **N. Nagpal**, R. Narang, L. Jaggi, S. Yadav, “Application of IoT (Internet of things) and Big data technology in smart grid and renewable energy integration”, pp. 95-95, Proceedings of 3rd International Conference on Renewable Energy 2020, Rome, Italy, held online on November 25-27, 2020, ISSN 2609-374X.
- **G. Singla, V. Yadav, M. Verma, R. Sharma, N. Nagpal**, “Emerging Electrified Transportation in India: Challenges and Proposed Solutions”, 3rd International Conference on Energy Systems, Drives and Automations (online), December,30th-31st, 2020.
- **Anjali Raghav, & Monika Gupta**, “Ensemble Learning for Facial Expression Recognition, Fusion: Practice and Applications (FPA), 2(2), 31–41, 2020.
- **S. K. Pandey** and B. Singh, “Hybrid DSC with Compensation Capability Based Control for Grid Integrated SPV System,” IEEE Power India International Conference (PIICON), SONEPAT, India, pp. 1-6, 2020.
- **S. K. Pandey** and B. Singh, “Battery Supported Grid Tied PV System with CFDBPF Based Control Algorithm,” IEEE International Conference on Computing, Power and Communication Technologies (GUCON), Greater Noida, India, pp. 587-593, 2020.
- **S. K. Pandey** and B. Singh, “Grid Tied PV-BES System with Multitasking Voltage Source Converter,” IEEE International Conference on Computing Communication and Automation (ICCCA), Greater Noida, India, pp. 12-17, 2020.
- **S. K. Pandey**, B. Singh and Gaurav Modi, “Frequency Adaptive Complex-Coefficient Filter- Based Control for Grid-Integrated PV System,” IET Generation Transmission Distribution, vol.14, issue.19, pp.4141-4151, October 2020.

6. Special achievements of Department.

Anveshana Competition: The Anveshana Competition was organized by Agastya Foundation in collaboration with Synopses. The format of the competition was based on engineering students creating a project along with underprivileged students from secondary schools using simple concepts of science and engineering. Projects from all over India were judged starting from September. The best projects were showcased at an exhibition organized by Agastya Foundation on 11-12 February 2020 in New Delhi. Students from multiple schools all over Delhi attended the exhibition. Here the project was presented in a kiosk by the school students and judged on the basis of project innovation as well as the understanding of the young minds of the project. Our project “Assistive Technology Bases Smart Glove that Translates Sign Language into Text”. It was made by BTech students Vrinda Jain and Sumit Rawat. The school students involved in the competition were Harshvardhan Choudhary (grade 8) and Soumya Choudhary (Grade 7). We were awarded the fifth prize at the exhibition as well as a cash prize of Ten thousand rupees. This achievement would not have been possible without the mentorship of Mrs. Poonam Juneja and the guidance and support of Mr. Rajeev Mittal, HOD of Dept of EEE, MAIT.

7. Special achievements of individual staff member of Department.

Dr Neelu Nagpal is included as Technical member of IEEE Control System Community (<http://ieeecss.org/search?keywords=Neelu+>) from India.