



# Maharaja Agrasen Institute of Technology

(Approved by AICTE & Affiliated to GGSIP University, New Delhi)

PSP area, Plot No.-1 Sector-22, Rohini, New Delhi – 110085

Ph. No. : 011-27582095 , 65151162/63 , 65162001

Website: www.mait.ac.in

## Department of Electrical & Electronics Engineering

Academic Year – 2023-2024 (Odd & Even Sem.)

### EEE Faculty members data for teacher day celebration

#### 1 Phd Awarded after 31 August 2022

01

#### 2 List of faculty & Staff members who have completed 15 years of services at MAIT till 31 August,2023

S.No.	Name	Department	Date of Joining MAIT	Post
1	Mr. Ashok Goyal	EEE	08/01/08	Assistant Professor

#### 3 List of EEE Staff members who have completed Higher Education at MAIT till 31 August,2022

S.No.	Name	Department	Qualification Achieved	Date of Award
1	Mr.Rahul	EEE	BCA	Mar-23
2	Mr. Madan Mohan Kesri	EEE	M.A.	Aug-23

#### 4 Achievements of Department:

- Gold medal received by Mayank Pokhriyal (00114804919)
- Third Position GGSIPU by Amit kumar (08214804919)
- Forth Position GGSIPU by Sumit Sharma(05614804919)
- Develop & Fabricated Anti-smog gun as major Project by EEE Students(2019-23)

#### 5 Papers Published by EEE Faculty: List of detail attached below

Faculty	International Journal	International Conference	Book Chapter	Total Publications
Prof Satvir Deswal	5	-	-	5
Dr Monika Gupta	1	-	1	2
Dr.Neelu Nagpal	3	1	1	5
Dr Neelam Kassarwani	3	-	1	4
Mr Jitender Kumar	1	-	-	1
Ms. Supriya Sharma	1	1	-	2
Ms. Poonam Juneja	1	1	-	2
Ms Shashi Aggarwal	-	1	-	1
Ms Neha agarwal	-	1	-	1
Mr. Ravi Sharma	-	-	1	1
Ms. Monika Bhardwaj	-	-	1	1
Dr Laxya Singla	-	3	-	3
Total	15	8	5	28

## Details of publications of EEE faculty members after 31st August 2022

S. No.	Name	National/International/Patent	Book Chapter/Conference/Journal/Patent	Publisher	Number of publication with detail
1	Prof Satvir Deswal	International	Journal	Journal of Computational Electronics, Springer	Numerical modeling of a dielectric modulated surrounding-triple-gate germanium-source MOSFET (DM-STGGS-MOSFET)-based biosensor. J Comput Electron 22, 742–759 (2023). <a href="https://doi.org/10.1007/s10825-023-02008-w">https://doi.org/10.1007/s10825-023-02008-w</a>
2	Prof Satvir Deswal	International	Journal	Journal of Microsystem Technologies of Springer-Nature	Extraction of non-quasi-static model parameters for cylindrical gate-stacked junction-less accumulation mode MOSFET and its implementation as RF filters for circuit applications. Microsyst Technol (2023). <a href="https://doi.org/10.1007/s00542-023-05524-8">https://doi.org/10.1007/s00542-023-05524-8</a>
3	Prof Satvir Deswal	International	Journal	Microelectronics Journal, Elsevier	Ge/Si interfaced label free nanowire BIOFET for biomolecules detection-analytical analysis, Volume 138, August 2023, 105832
4	Prof Satvir Deswal	International	Journal	Physica Scripta	Analytical modeling and doping optimization for enhanced analog performance in a Ge/Si interfaced nanowire MOSFET, Vol 98, no. 7, doi: 10.1088/1402-4896/acde16
5	Dr Monika Gupta	International	Journal	Expert Systems, Wiley	Modelling and control of fuzzy-based systems using intelligent water drop algorithm, August 2022, <a href="https://doi.org/10.1111/exsy.13124">https://doi.org/10.1111/exsy.13124</a>
6	Dr Monika Gupta	International	Chapter as Conference Proceeding	International Conference on Signals, Machines, and Automation (SIGMA 2022)	Solar Irradiation Prediction Using Neural Networks. In: Rani, A., Kumar, B., Shrivastava, V., Bansal, R.C. (eds) Signals, Machines and Automation. SIGMA 2022. Lecture Notes in Electrical Engineering, vol 1023. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-99-0969-8_67">https://doi.org/10.1007/978-981-99-0969-8_67</a>
7	Prof Satvir Deswal	International	Journal	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields	Analytical investigation of a triple surrounding gate germanium source metal–oxide–semiconductor field-effect transistor with step graded channel for biosensing applications, e3106, <a href="https://doi.org/10.1002/jnm.3106">https://doi.org/10.1002/jnm.3106</a>
8	Dr. Neelu Nagpal	International	Journal	Applied Soft Computing, Elsevier	A quantum-based approach for offensive security against cyber attacks in electrical infrastructure, Applied Soft Computing, Elsevier, Volume 136, 110071, 2023 <a href="https://doi.org/10.1016/j.asoc.2023.110071">https://doi.org/10.1016/j.asoc.2023.110071</a>
9	Dr Neelu Nagpal	International	Journal	IEEE Access	Decentralized Optimized Integral Sliding Mode-Based Load Frequency Control for Interconnected Multi-Area Power Systems, in IEEE Access, vol. 11, pp. 32296-32307, 2023. doi: 10.1109/ACCESS.2023.3262790.
10	Dr Neelu Nagpal	International	Journal	IEEE Access	Power Quality Disturbances Detection and Classification Based on Deep Convolution Auto-Encoder Networks, in IEEE Access, vol. 11, pp. 46026-46038, 2023, doi: 10.1109/ACCESS.2023.3274732.
11	Dr Neelu Nagpal	International	Book Chapter as Conference Proceeding	Springer	Dynamic State Estimation of a Multi-source Isolated Power System Using Unscented Kalman Filter. In: Gupta, D., Khanna, A., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, vol 492. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-3679-1_10">https://doi.org/10.1007/978-981-19-3679-1_10</a>

				River Publishers, IEEE	Blockchain based Solution for Electricity Supply Chain in Smart Grids," in Applications of Big Data and Artificial Intelligence in Smart Energy Systems: Volume 2 - Energy Planning, Operations, Control and Market Perspectives , River Publishers, 2023, pp.127-142.
12	Dr Neelu Nagpal	International	Book Chapter	Explore	
13	Dr Neelam Kassarwani	International	Journal	Electric Power Components and Systems, Taylor & Francies	Comparative Performance Study of DVR Using Adaptive LMS Filtering-Based Algorithms, Electric Power Components and Systems, Taylor & Francis, Systems, 0(0): 1–28, 2023. <a href="https://doi.org/10.1080/15325008.2023.2238694">https://doi.org/10.1080/15325008.2023.2238694</a>
14	Dr Neelam Kassarwani	International	Journal	IEEE Access	Decentralized Optimized Integral Sliding Mode-Based Load Frequency Control for Interconnected Multi-Area Power Systems, in IEEE Access, vol. 11, pp. 32296-32307, 2023. doi: 10.1109/ACCESS.2023.3262790.
15	Dr Neelam Kassarwani	International	Journal	IEEE Access	Power Quality Disturbances Detection and Classification Based on Deep Convolution Auto-Encoder Networks, in IEEE Access, vol. 11, pp. 46026-46038, 2023, doi: 10.1109/ACCESS.2023.3274732.
16	Mr Jitender Kumar	International	Journal	Journal of Microsystem Technologies of Springer-Nature	Extraction of non-quasi-static model parameters for cylindrical gate-stacked junction-less accumulation mode MOSFET and its implementation as RF filters for circuit applications. Microsyst Technol (2023). <a href="https://doi.org/10.1007/s00542-023-05524-8">https://doi.org/10.1007/s00542-023-05524-8</a>
17	Dr Neelam Kassarwani	International	Book Chapter	River Publishers, IEEE Explore	Application of LMS Algorithm for Mitigation of Voltage Sag as Power Quality Problem," in Applications of Big Data and Artificial Intelligence in Smart Energy Systems: Volume 2 - Energy Planning, Operations, Control and Market Perspectives , River Publishers, 2023, pp.97-126.
18	Dr Laxya Singla	International	Conference	International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), IEEE	<a href="https://ieeexplore.ieee.org/document/10183083">https://ieeexplore.ieee.org/document/10183083</a>
18	Dr Laxya Singla	International	Conference	International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), IEEE	Differential Lossy Integrator using FTFNTA," 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, 2023, pp. 1996-1999, doi: 10.1109/ICACITE57410.2023.10182486.
19	Dr Laxya Singla	International	Conference	International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), IEEE	Optimization for Read Range of Low Frequency RFID System," 2023 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), Greater Noida, India, 2023, pp. 674-682, doi: 10.1109/CISES58720.2023.10183523.
20	Ms. Poonam Juneja	International	Journal	IETE Journal of Research, Taylor & Francies	Tie-Line Power Transferred: Data Security Using Block Chain Technology, <a href="https://doi.org/10.1080/03772063.2023.2181232">https://doi.org/10.1080/03772063.2023.2181232</a>

21	Ms. Poonam Juneja	International	Conference	International Conference on Recent Innovations in Science & Technology (RIST 2023)	Deep Learning Algorithms To Identify Stress In Humans By Monitoring Physiological Data, 5th International Conference on Recent Innovations in Science & Technology (RIST 2023), Holy Grace Academy of Engineering Kerala in association with ISET Research India, April 07-08, 2023
22	Mr. Ravi Sharma	International	Book Chapter	River Publishers, IEEE Explore	A Review of Technologies in Net Zero Energy Building for Islanded Operation," in Applications of Big Data and Artificial Intelligence in Smart Energy Systems Smart Energy System: Design and its State-of-The Art Technologies : Volume 1 , River Publishers, 2023, pp.251-276.
23	Ms Shashi Aggarwal	International	Conference	4th International conference on Artificial Intelligence and Speech Learning, Centre of Excellence-Artificial Intelligence, IEEE	Fuzzy Neuron Model – An Element Of Deep Learning For Stress Estimation," 2022 4th International Conference on Artificial Intelligence and Speech Technology (AIST), 9-10 Dec., Delhi, India, 2022, pp. 1-6, doi: 10.1109/AIST55798.2022.10064864.
24	Ms. Supriya Sharma	International	Chapter as Conference Proceeding	International Conference on Signals, Machines and Automation. (SIGMA 2022)	Energy Management System of Standalone DC Microgrid. In: Rani, A., Kumar, B., Shrivastava, V., Bansal, R.C. (eds) Signals, Machines and Automation. SIGMA 2022. Lecture Notes in Electrical Engineering, vol 1023. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-99-0969-8_13">https://doi.org/10.1007/978-981-99-0969-8_13</a>
25	Ms. Supriya Sharma	International	Journal	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	A Blockchain Based Energy Management System for Microgrids, International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; Volume 11 Issue IV Apr 2023- Available at <a href="http://www.ijraset.com">www.ijraset.com</a>
26	Ms. Monika Bhardwaj	International	Conference	IEEE	Power Quality Enhancement and Coordination Control of a Microgrid System connected to a Grid using Hybrid Optimization Approach," 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON 2023), Aligarh, India, 2023, pp. 1-6, doi: 10.1109/PIECON56912.2023.10085750.
27	Ms Neha agarwal	International	Chapter as Conference Proceeding	Springer	Dynamic State Estimation of a Multi-source Isolated Power System Using Unscented Kalman Filter. In: Gupta, D., Khanna, A., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, vol 492. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-3679-1_10">https://doi.org/10.1007/978-981-19-3679-1_10</a>