

# RESUME

**Dr. Praveen Pachauri**  
**Principal, Government Polytechnic Siwan**  
**Department of Science, Technology and Technical Education**  
**Government of Bihar, Patna**

An accomplished academician, researcher, and institutional leader with about **26 years of academic and administrative experience** at Undergraduate and Postgraduate levels. Presently serving as the **Principal, Government Polytechnic Siwan** (Bihar), since **August 18, 2023**, through selection by the **Bihar Public Service Commission (BPSC)**.

Formerly held prestigious positions such as **Director** at **U.P. Institute of Design, Noida** (A constituent institution of Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow, under Government of Uttar Pradesh) from January 13, 2023, to August 16, 2023, **Dean (Administration) / Director (Projects & Planning)** at **Noida Institute of Engineering & Technology (NIET), Greater Noida** (Uttar Pradesh's First Self-Financed Autonomous Engineering Institute) during October 23, 2006 to August 15, 2016, and again from October 18, 2016 to January 12, 2023 and **Director** at **Accurate Institute of Management and Technology Greater Noida** from August 16, 2016 to October, 17, 2016.

**Teaching and Administrative Experience: More than 26 Years**

**Academic Administration Experience as Dean/Director/Principal – More than 18 Years**

## Awards and Accolades

1. “Er. Nivesh Kumar Varshney, Meerut Memorial Award” for UP/ Uttarakhand State **Best Engineering College Teacher** for the year 2020 Award from Indian Society for Technical Education, (ISTE) India.
2. Recipient of "**Young Researcher Award-2021**" from Institution of Engineers (India).
3. Recipient of "**Shikshak Samman**" from Rastriya Shishak Sangh (2016).
4. Recipient of "**Best Research Paper Award**" in International Conference on Recent Innovations in Engineering, Applied Sciences and Management (EAM17) at IETE, Janakpuri, New Delhi, (2017)
5. **Fellow of Institution of Engineers** (India) [Membership No: F-1234303]
6. **Fellow of the Institution of Electronics & Telecommunication Engineers** (IETE) [F 507204]

## Prestigious Assignments:

- Served as **Hon’ble Governor of Rajasthan** and **Chancellor's Nominee** in the **Board of Management** for **Mohan Lal Sukhadia University, Udaipur**.
- Served as **Member, Board of Studies (BOS)**, Mechanical Engineering at **Dr APJ Abdul Kalam Technical University, Lucknow**. (Nominated by Hon’ble Vice Chancellor).
- Served as **Member, Board of Studies (BOS) of B.Voc.** at **Dr APJ Abdul Kalam Technical University (AKTU), Lucknow**. (Nominated by Hon’ble Vice Chancellor).
- Served as **Member, Research Advisory Committee (RAC)** of **Mohanlal Sukhadia University, Udaipur**. (Nominated by Hon’ble Vice Chancellor)
- Served as **Member, Governing Body** at **Noida Institute of Engineering and Technology, Greater Noida**.
- Served as **Mentor** four institutes affiliated to Dr APJ Abdul Kalam Technical University (AKTU), Lucknow for implementation of Outcome Based Education (OBE) and get **NBA and NAAC accreditation**.
  1. Krishna Engineering College, Ghaziabad, UP
  2. Moradabad Institute of Technology, Moradabad, UP

3. Bansal Institute of Engineering and Technology, Lucknow, UP
  4. S. R. Institute of Management & Technology, Lucknow, UP
- Served as **Mentor** for four **Startups companies** in Greater Noida.
  - Served as **Advisory Board Member** at Maharishi University of Information Technology (MUIT) Incubation and Innovation Foundation (MIIF), Lucknow.
  - Served as **SPOC/Nodal Officer** of **Smart India Hackathon Events (2018, 2019, 2020) and Toyathon-2021** organised by **MHRD/ Ministry of Education, Government of India** at Noida Institute of Engineering and Technology, Greater Noida.
  - Served as **Faculty Advisor** at **NIET-Technology Business Incubator (NIET-TBI)** approved by MSME, Government of India.
  - Served as **Nodal-In-Charge** for **MOOCs** development by AKTU, Lucknow for Mechanical Engineering, Chemical Engineering and Bio-Technology.

#### **Academic Qualification:**

- **Post-doctoral Researcher (Remote)** on “A Hybrid Machine Learning Framework for Cancer Detection and Diagnosis” from Engineering Cluster, **Singapore Institute of Technology\***.
- **Ph.D. in Mechanical Engineering** from **Aligarh Muslim University**, Aligarh in the year 2016. Topic: Powder Injection Molding (PIM) Parameter Optimization Using Artificial Neural Network Technique.
- **Executive M.Tech in Computer Science and Engineering** from **IIT, Patna (Pursuing)**.
- **Executive MBA (Business Analytics)** from **IMT, Ghaziabad (Result Awaited)**.
- **M.Tech. in Mechanical Engineering** from **Aligarh Muslim University**, Aligarh with First Division (71.63%) in the year 2006.
- **B.Sc (Engg.) in Mechanical Engineering** from **Aligarh Muslim University**, with First Division (67.77%) in the year 1998.
- Senior Secondary School Certificate (10+2) from Aligarh Muslim University, Aligarh with First Division (71.80%) in the year 1994.
- Secondary School Certificate (10th) from Aligarh Muslim University, Aligarh with First Division (71.53%) in the year 1992.

#### **Courses for Continuous learning:**

1. “Sustainability through Green Manufacturing Systems: An Applied Approach” from **IIT, Kanpur** with 91% marks. (Gold Medal) (2017)
2. “Patent Law for Engineers and Scientists” from **IIT, Madras** with 70% marks. (2017)
3. “Surface Engineering of Nano-materials” from **IIT, Roorkee** with 86% marks. (2018)
4. “Fuzzy Logic and Neural Networks” from **IIT, Kharagpur** with 75% marks. (2019)
5. “Friction and Wear of Materials: Principles and Case studies” from **IIT, Roorkee** with 62% marks. (2019)
6. “Accreditation and Outcome based Learning” from **IIT, Kharagpur** with 75% marks. (2019)
7. “Manufacturing of Composites” from **IIT, Kanpur** with 78% marks. (2019)
8. “NBA Accreditation and Teaching-Learning in Engineering (NATE)” from **IISc, Bangalore** with 98% marks. (2020)
9. “Digital Manufacturing and Design” from **The State University of New York** at Buffalo, offered through Coursera.
10. “Human-Centered Design for Inclusive Innovation” from **University of Toronto**, offered through Coursera.

11. “Digital Twins” from **University of Michigan**, offered through Coursera.

12. “Industrial Internet of Things (IIoT)” from **University of Michigan**, offered through Coursera.

**Professional Experience: 26 Years+**

Name of the Office/ Institution	Post held	From	To	Scale of pay	Whether Regular or Temporary	Nature of duties
Government Polytechnic Siwan, under DSTTE, Government of Bihar	Principal	18.08.2023	Till date	13A1 (under review for protection of scale 14)	Regular	Teaching and Administrative
U.P. Institute of Design, Noida - a constituent institution of Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow	Director	13.01.2023	16.08.2023	14	Contract / Deputation	Teaching and Administrative
Noida Institute of Engineering & Technology (NIET), Greater Noida (Autonomous Institute)	Professor and Director (Projects & Planning)	18.10.2016	12.01.2023	37400-67000 with AGP 10000	Regular	Teaching and Administrative
Accurate Institute of Technology and Management, Greater Noida.	Director	16.08.2016	17.10.2016.	Consolidated	Contractual	Teaching and Administrative
Noida Institute of Engineering & Technology (NIET), Greater Noida (Autonomous Institute)	Professor and Director (Projects & Planning)	29.03.2016	15.08.2016	37400-67000 with AGP 10000	Regular	Teaching and Administrative  Director (Projects & Planning) form 01.03.2014  Dean (23.10.2006 to 28.02.2014)
	Associate Professor	01.09.2008	28.03.2016	37400-67000 with AGP 9000	Regular	
	Assistant Professor	01.09.2006	31.08.2008	12000-420-18300	Regular	
	Senior Lecturer	01.11.2004	31.08.2006	10000-325-15200	Regular	
Meerut Institute of Engineering & Technology (MIET), Meerut	Senior Lecturer	01.10.2003	30.10.2004	10000-325-15200	Regular	Teaching and Administrative
	Lecturer	29.11.1999	30.09.2003	8000-275-13500	Regular	
IEC College of Engineering & Technology, Greater Noida	Lecturer	16.08.1999	27.11.1999	8000	Consolidated	Teaching and Administrative

**Administrative Experience:**

1. Principal, Government Polytechnic Siwan (Bihar), since 18.08.2023 to till date.



5. "Process Parametric Optimization of CNC Vertical Milling Machine Using Taguchi Method" Mr Harish Kumar Sharma (June 2014) Al-Falah University, Haryana.
6. "Development of Functionally Graded Materials using Friction Stir Welding" Mr Dushyant Kumar Upadhyay (11/IME/035) (June 10, 2016) Gautam Buddha University, Greater Noida.
7. "Effect of Friction Stir Welding process parameters on mechanical properties of Functionally Graded Materials" Mr Chandra Vikram Singh (11/IME/111) (June 10, 2016) Gautam Buddha University, Greater Noida.
8. "Development of computational model for evaluation of ride comfort of road car through Bond Graph" Mr Nripendra Kumar Choudhary (1313340702) (August 12, 2016) Dr. APJ Abdul Kalam Technical University, Lucknow.
9. "Design of CRMC non-adiabatic supersonic nozzle with frictional effect" Shambhu Pandit (Enrol No.: 2001330405013) (March, 2022) Dr. APJ Abdul Kalam Technical University, Lucknow.
10. "Fabrication and characterization of particle reinforced aluminium alloy-based hybrid composite" Mohammad Arshad Jamal (Enrol No.: 1901330405005) (March, 2022) Dr. APJ Abdul Kalam Technical University, Lucknow.
11. "Characterization and fabrication of SIC/SAC/TI reinforced and Al5083 Based Aluminium Alloy Hybrid Composite" Karan (Enrol No.: 190133040080106) (September, 2022) Dr. APJ Abdul Kalam Technical University, Lucknow.
12. "Effect of copper powder on the material removal rate and surface roughness in ECM process during machining of D3 die steel" Abhinao Anand Singh (Enrol No.: 1901330405001) (September, 2022) Dr. APJ Abdul Kalam Technical University, Lucknow.

#### **Patents Granted/ Published:**

1. Tractional stability control system based on integrated ABS and weight transfer mechanism. India Patent (Application No 3812/DEL/2012). (Granted on 08/04/2021)
2. Solar Powered Field Plough. India Patent (Application No.201811040969A)
3. Controlled Paste Injector. Design Application (Application No.332740-001)
4. Cartridge for 3D- Medicine Printer. India Patent (Application No. 202011041141A)
5. Green Manufacturing Equipment for Production of Composite Material Design No.: 418997-001 (Granted on 05/09/2024)

#### **Research Papers in SCI/Scopus Indexed Journals:**

##### **Q1 Category Journals:**

1. Pachauri P. et al. (2025)," Optimizing Diesel Engine Performance with Nanoparticle-Biodiesel Blends: A Hybrid Priority Machine Learning and Multi-Criteria Decision-Making Approach", Results in Engineering, 107491, ISSN: 2590-1230 (2025) DOI: <https://doi.org/10.1016/j.rineng.2025.107491> (Impact Factor 7.9)
2. Pachauri P. et al. (2025)," Experimental analysis and optimization of hydrogen pre-cooling liquefaction process with composite catalyst through a hybrid priority cluster modeling approach." Sci Rep Vol. 15, 31093 Journal: Scientific Reports Vol 15, 31093 ISSN: 2045-2322 (2025). <https://doi.org/10.1038/s41598-025-16832-6> Published: 24 August 2025 (Impact Factor 3.9)
3. Pachauri P. et al. (2025)," A hybrid statistical-machine learning approach for experimental analysis of biogas production in a waste to energy plant using a vacuum evaporator system", Results in Engineering, Volume 27, 2025, 106451, ISSN 2590-1230, <https://doi.org/10.1016/j.rineng.2025.106451> (Impact Factor 7.9)
4. Pachauri P. et al. (2025)," Machine Learning-Driven Optimization of Refrigerant Compositions for Hydrogen Liquefaction Pre-cooling: A Hybrid Approach Combining Entropy prioritization, k-means Clustering, and GMM Refinement" International Journal of Hydrogen Energy, Volume 149, 2025, 150138, ISSN 0360-3199, DOI: <https://doi.org/10.1016/j.ijhydene.2025.150138> (Impact Factor 8.3)

5. Pachauri P. et al. (2024),” Analyzing vehicle emissions using a hybrid machine learning approach using weighted average based k-means clustering for sustainable transportation decision-making” *Green Technologies and Sustainability* Vol. 3 Issue 3 100163 pp 01-18 ISSN 2949-7361 DOI: <https://doi.org/10.1016/j.grets.2024.100163>
6. Pachauri P. et al. (2025),” Innovative hydrogen production from waste bio-oil via steam methane reforming: An advanced ANN-AHP-k-means modelling approach using extreme machine learning weighted clustering” *International Journal of Hydrogen Energy* Volume 105, pp 1080-1091 ISSN: 0360-3199 DOI: DOI: <https://doi.org/10.1016/j.ijhydene.2025.01.269> (Impact Factor 8.3)

#### Q2 Category Journals:

7. Pachauri P. et al. (2025),” Enhanced solid-state techniques: fabrication and characterization of aluminum–magnesium composites reinforced with ZrB<sub>2</sub> particles”; *Sadhana - Academy Proceedings in Engineering Sciences*; 2025; 50(1); ISSN 0256-2499 DOI: <https://doi.org/10.1007/s12046-025-02695-0> (Impact Factor – 1.4)
8. Pachauri P. et al. (2023),” Bonding strength and microstructural features of Al5083-AZ31B alloys laminated sheet through friction stir additive manufacturing” *Journal of Adhesion Science and Technology*. Vol. 38(4), pp. 583–596 ISSN: 1568-5616 DOI: <https://doi.org/10.1080/01694243.2023.2240637> (Impact Factor – 3.7)
9. Pachauri P. et al. (2022),” Alumina catalyst waste utilization for aluminum-based composites using the friction stir process” *Materialprüfung/Materials Testing*, vol. 64, no. 4, 2022, pp. 533-540. ISSN: 2195-8572 DOI: <https://doi.org/10.1515/mt-2021-2074> (Impact Factor – 3.5)
10. Pachauri P. et al. (2019) "Formation of Functionally Graded Hybrid Composite Materials with Al<sub>2</sub>O<sub>3</sub> and RHA Reinforcements using Friction Stir Process" *Australian Journal of Mechanical Engineering (AJME)* ISSN: 1448-4846 2022; 20(1); 141-154; DOI: <https://doi.org/10.1080/14484846.2019.1679583> (Impact Factor – 1.3)

#### Q3 Category Journals:

11. Pachauri P. et al. (2025),” Assessment of Carbon Footprint: A Comparative Analysis of Diesel, Biodiesel, and Hybrid Vehicles Through EDAS and Entropy-Based Multi-Criteria Decision Making Methods” *Journal of The Institution of Engineers (India): Series C*, ISSN: 2250-0553 DOI: <https://doi.org/10.1007/s40032-025-01263-z>
12. Pachauri P. et al. (2025),” Optimization of Thermal Spraying Welding Using Entropy-k Means Analysis for Sustainable Manufacturing with Biomass-Based Nanocomposite Coatings” *Surface Review and Letters*, ISSN: 0218-625X DOI: <https://doi.org/10.1142/S0218625X25501549> (Impact Factor – 1.2)
13. Pachauri P. et al. (2024),” Enhancing retinal disease diagnosis through AI: Evaluating performance, ethical considerations, and clinical implementation” *Informatics and Health* ISSN: 2949-9534 [Vol 1, Issue 2](https://doi.org/10.1016/j.infoh.2024.05.003) pp 57–69 DOI: <https://doi.org/10.1016/j.infoh.2024.05.003>
14. Pachauri P. et al. (2018) “Surface integrity in wire-EDM tangential turning of in situ hybrid metal matrix composite A359/B4C/Al<sub>2</sub>O<sub>3</sub>”. *Science and Engineering of Composite Materials*; 2018; ISSN 2191- 0359 Vol 26 Issue 01 pp. 122-133 DOI: <https://doi.org/10.1515/secm-2017-0391> (Impact Factor – 1.6)

#### Q4 Category Journals:

15. Pachauri P. et al. (2026),” A Hybrid Deep-ensemble Decision-Support Framework for Reliable Early Breast Cancer Detection: A Cross-validated Outcome Analysis” *Turkish Journal of Oncology*, ISSN: 2717-8978, Vol. 41(1):43-51 DOI: 10.5505/tjo.2026.4798
16. Pachauri P. et al. (2025),” Evaluation of Microstructural and Mechanical Behavior of Al319-Fly Ash Hybrid Composites Processed by Stir Casting” *International Journal of Environmental Sciences*, ISSN: 2229-7359, Vol. 11 No. 14s, pp 609-616 2025 <https://doi.org/10.64252/pbshr010>

17. Pachauri P. et al. (2025),” Al319-Fly Ash Hybrid Composites Fabricated Via Stir Casting” International Journal of Environmental Sciences, ISSN: 2229-7359, Vol. 11 No. 7s, 625-634 2025 <https://doi.org/10.64252/38hhw492>
18. Pachauri P. et al. (2021),” Team Cognition Approach in Agile Software Development”, Journal of Engineering Science & Technology Review Vol. 14 Issue 4, pp 18-25. ISSN: 1791-2377 DOI: <https://doi.org/10.25103/jestr.144.03>

#### Other Journals

19. Mishra S., Pachauri P. and Pal S.(2012) “Modeling of Tractional Stability Control System based on integrated Anti-Lock Braking System (ABS) and Weight Transfer Mechanism for Improved Vehicle Stability during Cornering maneuver” SAE – Technical Papers ISSN 0148-7191 Vol. 07 pp. 1-23 DOI: <https://doi.org/10.4271/2012-01-1829>
20. Pachauri P. et al (2019), “Reactive Power Management System for Wind Power Plant” International Journal of Recent Technology and Engineering, Volume-8, Issue-2 Special Issue 11 2019; pp 2204-2206; ISSN: 2277-3878 DOI: <https://doi.org/10.35940/ijrte.B1236.0982S1119>
21. Gupta A and Pachauri P. (2019), “Efficiency improvement of on Grid Solar PV System using hybrid MPPT” International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8, Issue-(2 Special Issue 11) DOI: <https://doi.org/10.35940/ijrte.B1220.0982S1119>
22. Pachauri P., Singh R.K. (2020), “Fabrication of Grass-cutter machine operated by Solar Power” Journal of Critical Reviews, ISSN: 2394- 5125 Vol-7, Issue-3 pp 727-732 DOI: [10.31838/jcr.07.03.126](https://doi.org/10.31838/jcr.07.03.126)
23. Pachauri P. (2020) “The impact of sintering process parameters on density of parts Produced by metal injection moulding (MIM)” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(E): 2249– 8001 Vol. 10, Issue 3, pp 11985–11994 DOI: [10.24247/ijmperdjun20201146](https://doi.org/10.24247/ijmperdjun20201146)
24. Pachauri P. et al. (2018) “Hardness of welded Al6082 and Al8011 plates by controlling tilt angle and tool in FSW”. International Journal of Engineering & Technology; ISSN: 2227524X Vol 7, No 4.39 (2018): Special Issue 39, pp. 407-409 DOI: [10.14419/ijet.v7i4.39.24113](https://doi.org/10.14419/ijet.v7i4.39.24113)
25. Pachauri P. et al. (2018) “Effect of Friction Stir welding parameters on hardness of welded Al6082 and Al8011 plates”. International Journal of Engineering & Technology; ISSN: 2227-524X Vol 7, No 4.39 (2018): Special Issue 39, pp. 410-412 DOI: [10.14419/ijet.v7i4.39.24111](https://doi.org/10.14419/ijet.v7i4.39.24111)
26. Pachauri P. et al. (2021), “Mechanical Properties Investigation of Al 6063 T6/ SiC MMC Fabricated Through Electromagnetic Stir Casting with Squeeze Casting” Sambodhi Vol-44 No. 01 (I), pp 378-391, ISSN: 2249-6661. [UGC Approved]
27. Pachauri P. et al. (2021)” A Review on energy sources, in India” Anvesak, Vol. 51, No.1(VI) pp 116-127, ISSN: 0378 – 4568, [UGC Approved]
28. Pachauri P. et al. (2020) “A study on the effect of alkali and silane treatment on the ear and dynamic analysis of flax hemp jute fiber reinforced hybrid composite for tribology application”, Journal of the Maharaja Sayajirao University of Baroda, Vol 54, No.2 (XI) pp 145-153, ISSN: 0025-0422. [UGC Approved]
29. Pachauri P. et.al (2020), “Multi-Objective Optimization of Metal Injection Molding (MIM) process parameters using Artificial Neural Network (ANN)”, Journal of the Maharaja Sayajirao University of Baroda, Volume-54, No.2 (XI) pp 103-114, ISSN: 0025-0422. [UGC Approved]
30. Pachauri P. et. Al (2025) “A Comprehensive Review of Magnesium Matrix Composites (MMCs) and Its Manufacturing Techniques”, Journal of Polymer & Composites, ISSN: 2321-2810 Vol: 13, Issue: 1 pp S1040-1050.
31. Pachauri P. et. Al (2025) “A Comprehensive Review of Magnesium Matrix Composites (MMCs) and Its Manufacturing Techniques”, Journal of Polymer & Composites, ISSN: 2321-2810 Vol: 13, Issue: 1 pp S1040-1050.

32. Pachauri P. et. Al (2020) “A Study on the Effect of Gender, Size of Mobile Phones and Noise on the Performance of Operators During Data Entry Task”, Global Sci- Tech, ISSN: 0975-9638 Vol: 12, Issue: 2 pp 57-64 DOI: [10.5958/2455-7110.2020.00009.9](https://doi.org/10.5958/2455-7110.2020.00009.9)
33. Pachauri P. et al. (2020),” Ergonomical aspects of human laterality, size of smartphone touch screen and workspace noise on the performance of operators during data entry task” International Journal for Research in Engineering & Management (IJREAM), ISSN: 2454-9150 Vol-06, Issue-05 pp 228-234. DOI: [10.35291/2454-9150.2020.0578](https://doi.org/10.35291/2454-9150.2020.0578)
34. Pachauri P., Ali A. (2019) “Design and Manufacturing of Brake Shoe” International Journal of Science and Research (IJSR) ISSN: 2319-7064 Vol. 8 Issue 8, pp 580– 583 DOI: [10.21275/ART2020286](https://doi.org/10.21275/ART2020286)
35. Kumar A. and Pachauri P. (2012) “Optimization Drilling Sequence by Genetic Algorithms” International Journal of Scientific and Research Publications, Volume 2, Issue 9, pp 1-7 ISSN: 2250-3153.
36. Gupta N. and Pachauri P. (2012) “An Experimental and Computational Investigation of Crack Growth Initiation in Compact Tension (CT) Specimen” International Journal of Scientific and Research Publications, Volume 2, Issue 8, pp 1-7 ISSN: 2250- 3153.
37. Khan M. Y. and Pachauri P. (2010) “Performance evaluation of wick stove fuelled with jatropha curcas oil-kerosene blends” NIET Journal of Engineering & Technology, vol. I P, pp 57-62 ISSN No. 2229-5828.

#### Conference Proceeding

38. Pachauri P. et al. (2025),” Digital Identity Systems and Their Role in Driving Economic Participation in Underbanked Regions”, 2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical Electronics and Computer Engineering (UPWIECON) DOI: [10.1109/UPWIECON67212.2025.11390511](https://doi.org/10.1109/UPWIECON67212.2025.11390511)
39. Pachauri P. et al. (2025),” Intelligent Energy Management in Solar-Powered Microgrids Using AI-Based Load Forecasting and Optimization” 2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical Electronics and Computer Engineering (UPWIECON) DOI: [10.1109/UPWIECON67212.2025.11390097](https://doi.org/10.1109/UPWIECON67212.2025.11390097)
40. Pachauri P. et al. (2025),” A Review of the Role of Quantum Computing in Simulating Molecular Interaction” 2025 1st IEEE Uttar Pradesh Section Women in Engineering International Conference on Electrical Electronics and Computer Engineering (UPWIECON) DOI: [10.1109/UPWIECON67212.2025.11390421](https://doi.org/10.1109/UPWIECON67212.2025.11390421)
41. Pachauri P. et al. (2024),” Deep Learning Techniques for Enhancing Near-Field Spatially Varying Channels In Wireless Communications”, Proceedings of International Conference on Communication, Computer Sciences and Engineering, IC3SE 2024, 2024, pp. 1190–1195 DOI:[10.1109/IC3SE62002.2024.10593628](https://doi.org/10.1109/IC3SE62002.2024.10593628)
42. Pachauri P. et al. (2024),” "An Empirical Study on the Impact of Corrosive Atmosphere on 2000 Al-Cu + Fly Ash Metal Matrix Composite Alloy," 2024 International Conference on Communication, Computer Sciences and Engineering (IC3SE), Gautam Buddha Nagar, India, 2024, pp. 21-25, DOI: [10.1109/IC3SE62002.2024.10593213](https://doi.org/10.1109/IC3SE62002.2024.10593213)
43. Pachauri P. et al. (2023) “A Systematic Review on Green Manufacturing of Automotive Parts” Proceedings of International Conference on Contemporary Computing and Informatics, IC3I 2023, 2023, pp. 2144–2151 DOI: <https://doi.org/10.1109/IC3I59117.2023.10397825>
44. Pachauri P. et al. (2023) “Geographical Visitor Locator” 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2023, 2023, pp. 196–203 DOI:[10.1109/UPCON59197.2023.10434825](https://doi.org/10.1109/UPCON59197.2023.10434825)
45. Pachauri P. et al. (2023),” Mechanical behavior of aluminium based stir casted composite materials utilizing petroleum waste, ceramic powder and metal powder as the reinforcement” Materials Today: Proceedings, 78, pp. 708–713 DOI: [10.1016/j.matpr.2023.01.132](https://doi.org/10.1016/j.matpr.2023.01.132)

46. Pachauri P. et al. (2023),” Design of CRMC non-adiabatic supersonic nozzle with frictional effect”, Materials Today: Proceedings, 2023 <https://doi.org/10.1016/j.matpr.2023.02.428>
47. Pachauri P. et.al. (2022), "Optimization of magnesium ZK60A/SiC/B4C hybrid composite fabricated by friction stir processing” International Conference on Advances in Materials and Mechanical Engineering. (ICAMME-2022), Materials Today: Proceedings 2022, ISSN 2214-7853 DOI: <https://doi.org/10.1016/j.matpr.2022.02.616> [Scopus indexed]
48. Pachauri P. et al. (2021) "Hazard Warning Turn Signal Indication Technologies and Acquisition in Automotive Sector; Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021; 2021; pp 625-630; IEEE Xplore ISSN: 2473-2001 DOI: <https://doi.org/10.1109/ICIEM51511.2021.9445299> [Scopus indexed]
49. Pachauri P. et al. (2021) “Effect of powder metallurgy on high entropy alloy materials: A review”, Materials Today: Proceedings, 2021, Volume 47, Part 13, pp 4026-4033 ISSN: 2214-7853, DOI: <https://doi.org/10.1016/j.matpr.2021.04.529> [Scopus indexed] [Impact Score: 1.24]
50. Pachauri P. et.al. (2021), "Virtualization Risks and associated Issues in Cloud Environment” Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021, 2021, pp. 521–525 DOI: <https://doi.org/10.1109/ICTAI53825.2021.9673424>
51. Pachauri P. et.al. (2021), "A review on conglomeration of Technologies for Smart Cities” Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021, 2021, pp. 526–530 , DOI: <https://doi.org/10.1109/ICTAI53825.2021.9673458>
52. Pachauri P. et al. (2020) “Effect of Intensity of Light and Size of the Touch Screen on Data Entry Through Mobile Phones by Different Age Group People: An Ergonomic Perspective” Global Sci-Tech, ISSN: 0975-9638 Vol. 12, Issue 2, pp 97-105. DOI: [10.5958/2455-7110.2020.00012](https://doi.org/10.5958/2455-7110.2020.00012).
53. Pachauri P. (2018)” Friction Stir Welding Technology-A Review” in Dr APJ Abdul Kalam University, Lucknow sponsored National Conference on Advances in Welding Technology organized by Noida Institute of Engineering & Technology, Greater Noida (18-19 September, 2018).
54. Pachauri P. (2017) “Impact of injection moulding process parameters on ultimate tensile strength of parts produced by Metal Injection Moulding”, in International Conference on Recent Innovations in Engineering, Applied Sciences and Management EAM-17 organised by Electronics and Telecommunication Engineers, New Delhi, International Journal of Advance Research in Science and Engineering, Vol 6, Issue 09, pp 370-382 ISSN: 2319-8354. (Best Paper Award)
55. Pachauri P. and Mohd Yunus Khan (2017) “Performance and emission characteristics of Kirloskar Diesel Engine operating on blend of Sesame and Diesel oil”, in 2nd International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering [CETCME-2017] (February 18-19, 2017), International Advanced Research Journal in Science, Engineering and Technology, Vol 4, Issue 3, pp 1-5, ISSN:2393-8021.
56. Pachauri P. and Shahzad Ahmad (2017) “Green Manufacturing in Iron and Steel Industry to win the threat of Global climate change” in 2nd International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering [CETCME-2017] (February 18-19, 2017), International Advanced Research Journal in Science, Engineering and Technology, Vol 4, Issue 3, pp 34- 40 ISSN: 2393-8021.
57. Pachauri P. (2017) “A review of progress of Bioenergy applications in India” in 5th World Bioenergy Congress and Expo held at Madrid, Spain organized by Conferenceseries.com (June 29-30, 2017).
58. Mohd. Yunus Khan, P.Pachauri, and Atishey Mittal (2016) “Performance evaluation of spark ignition engine running on petrol doped with various additives”, 6th International Conference on Recent Innovations in Science, Engineering and Management (20th August, 2018), International Journal of Advance Research in Science and Engineering, Vol 5, Issue 08, pp 465-472 ISSN: 2319-8354.

59. Pali H.S. and Pachauri P. (2015) "A review on the behavior of nano-refrigerants" in ISTE sponsored International Conference on Cutting Edge Technological Challenges in Mechanical Engineering (CETCME-2015) (March 21-22, 2015) at Noida Institute of Engineering & Technology, Greater Noida.
60. Kumar A. and Pachauri P. (2012) "Application of Genetic Algorithm for Drilling Sequence Optimization" Paper Code: D-407 in Institution of Engineers sponsored National conference on Emerging Technologies in Computer Science (ETCS-2012) (October 20-21, 2012) at Noida Institute of Engineering & Technology, Greater Noida.
61. Pali H.S. and Pachauri P. (2012) "Optimization and Simulation of Diesel Engine Performance using Artificial Neural Network (ANN)" Paper Code: B-211 in Institution of Engineers sponsored National conference on Emerging Technologies in Computer Science (ETCS-2012) (October 20-21, 2012).
62. Pachauri P. et al. (2010), "Effect of Injection Moulding parameters on the properties of parts produced by Powder Injection Moulding (PIM)", International Conference and Exhibition on Powder Metallurgy Processing of Particulate Materials & Products Transactions of PMAI, Vol 36 pp 96-98 ISSN: 0377-9416 Editor: P. Ramakrishnan, Powder Metallurgy Association of India.

#### **Books Authored:**

1. "Text Book of Mechanical Engineering", for First Year Engineering Students of UP Technical University, Lucknow. ISBN: 978-81-8398-420-1, Pragati Prakashan, Meerut.
2. "Elements of Mechanical Engineering", for First Year Engineering Students of K.U. Kurushetra and M.D.U., Rohtak, Haryana. ISBN: 81-7556-645-0, Pragati Prakashan, Meerut.
3. "Text Book of Strength of Materials", for Second Year Engineering Students of Mechanical Engineering in UP Technical University, Lucknow. ISBN: 978-81-8398-410-2, Pragati Prakashan, Meerut.
4. "Text Book of Advanced Strength of Materials", for Second Year Engineering Students of UP Technical University, Lucknow. ISBN: 81-7556-527-6, Pragati Prakashan, Meerut.
5. "Text Book of Engineering Mechanics", for First Year Engineering Students of UP Technical University, Lucknow. ISBN: 978-93-5006-440-5, Pragati Prakashan, Meerut.

#### **Book Chapter**

1. Kumar, Rajendra, Anand, Aman, Jain, Vishal, Pachauri, Praveen and Ng, Khar Thoe (2023). "6G and IoT-supported augmented and virtual reality-enabled simulation environment". Book: Augmented and Virtual Reality in Social Learning: Technological Impacts and Challenges, 2023; pp. 199-213; DOI:[10.1515/9783110981445-012](https://doi.org/10.1515/9783110981445-012) (Scopus Indexed)
2. Jamal, M.A., Pachauri, P., Verma, S.K. (2023). A Review and Emphasis on the Relevance of the Aluminum Based Hybrid Composite. Advances in Mechanical and Energy Technology. ICMET 2021. Lecture Notes in Mechanical Engineering. Springer, Singapore ISBN: 978-981-19-1617-5 pp 257-266 DOI:[10.1007/978-981-19-1618-2\\_25](https://doi.org/10.1007/978-981-19-1618-2_25) (Scopus Indexed)

#### **Book Edited**

1. Pachauri P. et al. (2024) "International Journal of Experimental Research and Review", Vol 37 (2024): Contemporary Scientific Research and Experimentation in Science & Technology (ISSN: 2455-4855; Website: [www.iaph.in](http://www.iaph.in); Scopus Indexed Journal)

#### **Research and Consultancy Projects:**

1. Industry Institute Partnership Cell Grant of 10.00 Lac rupees from AICTE, Government of India. RIFD/ IIPC (54)/2010-11 March 31, 2011 (Completed)
2. Entrepreneurship Development Cell Grant of 2.50 Lac rupees from AICTE, Government of India. RIFD/ EDC (66)/2010-11 March 31, 2011 (Completed)

3. Vishweshwarya Research Promotion Scheme Grant of 4.50 Lac rupees from Dr APJ Abdul Kalam Technical University, Lucknow. Dr APJ AKTU/Dean-PGSR/VRPS-2020/5751 Dated: 25 August 2020.
4. Idea Lab Grant of Rs 55.00 Lac from AICTE, Government of India to Noida Institute of Engineering and Technology, Greater Noida.

**Invited Talks delivered in National / International Events:**

1. Delivered an Expert Talk on “Benchmarking of some dimensions of National Education Policy 2020 related to higher education with Foreign Universities” in National Seminar on National Education Policy (NEP-2020) at Indraprastha Engineering College, Ghaziabad, UP
2. Delivered an Expert Talk on “National Education Policy 2020 and the implementation” in AICTE Training and Learning (Advance ATAL-FDP) sponsored Two Week Faculty Development Program (FDP) on Advancing Health and Agriculture through Precision Technology at NIET, Greater Noida (06–18 January, 2025) (On 13<sup>th</sup> January, 2025)
3. Delivered an Expert Talk in the One-Week Faculty Development Programme (FDP) on "Recent Trends in Civil and Mechanical Engineering", held from 9th September - 14th September, 2024 at BBDITM, Lucknow.
4. Delivered an Expert Talk on “Curriculum Design” in AKTU sponsored One Week Faculty Development Program (FDP) on NAAC accreditation process at NIET, Greater Noida (05–09 August, 2024) (On 05<sup>th</sup> August, 2024)
5. Delivered an Expert Talk on “Cyber Physical Systems” in Short Term Training Program (STTP) at MIT, Muzaffarpur (31 January, 2024)
6. Delivered keynote address on Artificial Intelligence applications in manufacturing industry on 28<sup>th</sup> January, 2023 in International Conference on Artificial Intelligence and Smart Communication (AISC-2023) dated 27<sup>th</sup>-29<sup>th</sup> January, 2023 organised by G.L. Bajaj Institute of Technology & Management, Greater Noida, UP.
7. Delivered an Expert Talk on “National Education Policy 2020” in AICTE-ISTE sponsored One Week Online Faculty Development Program (FDP) on Quantum Computing Fundamentals at IPEC, Ghaziabad (07–12 February, 2022) (8th February, 2022)
8. Delivered an Expert Talk on “Road to NBA” in One Day Workshop organized by Government Polytechnic Sheikhpura, Bihar sponsored by Department of Science and Technology, Bihar (21st January, 2022)
9. Delivered an Expert Talk on “Industry 4.0: Empowering Young Minds” in National Symposium on the occasion of National Youth Day at Mohanlal Sukhadia University. (12th January, 2022)
10. Delivered an Expert Talk on "Cyber Manufacturing Systems" in IEEE sponsored International Conference on "Computation, Automation and Knowledge Management" (ICCAKM - 2021) from 19th -21st Jan 2021 at Amity University. (20th January 2021)
11. Delivered an Expert Talk on "Research Methodology and its uses in education" in AKTU sponsored One-week Online Faculty Development Program on "Research Methodology (28 December, 2020 to 01 January, 2021)” at MIT Moradabad. (31st December, 2020)
12. Delivered a Keynote Lecture on IIOT & Cyber Manufacturing Systems in AICTE sponsored One-week Short Term Training Program on “An Introduction to Internet of Things (IoT) and Its Applications for Smart Transparent and Immutable Ecosystem” (October 5-10, 2020) at NIET, Greater Noida. (5th October, 2020)
13. Delivered a Keynote Lecture on “Role of Innovation and Technical change” in AICTE Training and Learning (ATAL) Academy, AICTE sponsored One- Week FDP programme on “Innovation Management”, (26-30 September, 2020) at IPEC, Ghaziabad.
14. Delivered an Expert Lecture on Academic upgradation in Post Pandemic Industrialization during One Week online FDP on “Academic Challenges & Opportunities: Post Covid-19 Pandemic” (22 - 26 June, 2020 ) organised by Maharishi University of Information Technology, Lucknow

15. Delivered a Keynote Lecture on Economic, Social & Environmental dimensions of Covid-19 during National Conference on Triple Bottom Line analysis and future of entrepreneurship after Covid-19 organised by Modern College of Professional Studies, Ghaziabad (17th May, 2020).
16. Delivered an Expert Lecture on Personalised Drug delivery through 3D-Printing during Dr APJ Abdul Kalam Technical University, Lucknow sponsored One Week FDP on Personalized Drug delivery through 3D printing: Newer challenges for Pharma Industries (25– 29 February, 2020)at Noida Institute of Engineering and Technology (Pharmacy Institute), Greater Noida..
17. Delivered a Keynote Lecture on “Significance of Bloom’s Taxonomy in Outcome Based Education” during Dr APJ Abdul Kalam Technical University, Lucknow sponsored (under TEQIP-III) One Week FDP on Outcome Based Pedagogic Principles for Effective Teaching (December 3-7, 2019) organized by MIT Group of Institutions. (7th December,2019).
18. Delivered an Expert Lecture on Lean Start-up strategy to avoid failure of startups during DST, Government of India sponsored Entrepreneurship Awareness Camp (18-20 November, 2019) at Noida Institute of Engineering and Technology, Greater Noida. (19th November, 2019).
19. Delivered an Expert Lecture on Biomimetic Surfaces, Materials and Methods during AKTU sponsored FDP under TEQIP-III on Green Tribology (May 6-10, 2019) at Moradabad Institute of Technology (MIT) Group of Institutions. (7th May,2019).
20. Delivered an Expert Lecture on 3D Printing in Bio-Technology during National Conference on BioTrendz: Technological Advancement & Challenges in the field of Biotechnology at Noida Institute of Engineering and Technology, Greater Noida. (23-24 April,2019).
21. Delivered a Keynote Lecture on “Bloom’s Taxonomy ” during Dr APJ Abdul Kalam Technical University, Lucknow sponsored (under TEQIP-III) One Week FDP on Outcome Based Education (19-23 February, 2019) organized by Noida Institute of Engineering and Technology, Greater Noida.
22. Delivered a Technical Talk on Environmental, Pollution Control, Energy saving & Non-conventional Energy sources in Faculty Development Programme sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB) and DST, Govt. of India under DST-NIMAT Project (10th - 20th December 2018) at I.T.S Engineering College; Greater Noida, , (18th December 2018).
23. Delivered an Expert Lecture on Additive Manufacturing in Pharmaceutical Industry during AKTU sponsored Faculty Development Programme on Development of Personalized Medicine (May 7-18, 2018) organized by NIET (Pharmacy Institute), Greater Noida. (9th May2018).
24. Delivered an Expert Lecture on Measurement of Programme Outcome during National Seminar on Outcome Based Education and NBA accreditation organized by MIT Group of Institutions. (30thDecember, 2017).
25. Delivered an Expert Lecture on How to curb Corruption in Professional World during Vigilance Awareness Week-2017 (30th October, 2017) organised by Oil India Limited at NIET, Greater Noida.
26. Delivered a Keynote address on Green Manufacturing Iron and Steel Industry in 3rd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE 2017) at ITS Engineering College (UP). (22nd April,2017).
27. Delivered a Keynote address on Sustainable Manufacturing initiatives in Automobile Industry in Institution of Mechanical Engineers sponsored Speck out for Engineering, Northern Heats 2017 (8th April, 2017) at SRM University, Ghaziabad (UP).
28. Delivered a Keynote address on Green Manufacturing Process in 2nd International Conference on Futuristic Trends in Computational Analysis and Knowledge Management at Amity University (UP), sponsored by IEEE. (23rdMarch,2017).
29. Delivered a Technical Talk on Taxation: Various taxes applicable to MSME in Department of Science and Technology-Govt. of India sponsored Entrepreneurship Development Programme (14th January, 2017) at I.T.S Engineering College, Greater Noida.

30. Delivered a Technical Talk on Environmental/ Pollution Control/ Energy saving/ Non-conventional Energy sources in Faculty Development Programme sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB) and Department of Science and Technology-Govt. of India under DST-NIMAT Project (13th to 23rd December 2016). at I.T.S Engineering College, Greater Noida.

**Conferences/Seminar /Workshops organised:**

1. One Week Hands on Training on Circuit Design and implementation Workshop (10-14 April, 2025) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
2. Hands on Training on Laser Cutting Technology (05-06 April, 2025) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
3. One Week Hands on Training on 3D Printing and Rapid Prototyping in collaboration with 3idea Technology, Bombay (02-06 March, 2025) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
4. One Week Hands on Training and Workshop on Website development using WordPress in collaboration with Infochord Technologies Pvt Ltd, Bombay (25 Feb- 01 March, 2025) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
5. Three Days Hands on Training and Workshop on Networking and Firewall Installation (11-13 January, 2025) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
6. One Week Hands on Training and Workshop on Web development in collaboration with Infochord Technologies Pvt Ltd, Bombay (18-22 November, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
7. Two Days Seminar on Electric Vehicle Technology (25-26 October, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
8. Three Days Workshop on Electric Vehicles Technology “Electrodrive” in collaboration with BPH Mobility Pvt. Ltd (26-28 September, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
9. Three Days Industrial Training & Workshop on IOT, Automation and Solar Technology in collaboration with V.S. Energy Technology Pvt Ltd (06-08 September, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
10. Two Days Hands on Training and Workshop on Computer Hardware Peripherals and Networking in collaboration with Coincap Systems Pvt Ltd (29-30 April, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
11. Three Days Workshop on Design and Development of Electric Vehicles Technology in collaboration with Lloyd Institute of Engineering & Technology, Greater Noida (13-15 March, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
12. Two Days National Seminar on Teaching Pedagogy in the Light of NEP-2020 (19-20 February, 2024) at Government Polytechnic Siwan, under DSTTE, Government of Bihar.
13. Organised Online Short Term Course as Coordinator on Nenosensor and Devices (under O,Plan No ICT-95 by NITTTR, Chandigarh, held from 22<sup>nd</sup> to 28<sup>th</sup> August, 2022 at NIET, Greater Noida.
14. 3<sup>rd</sup> International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering [CETCME-2020] (August 21-22, 2020) as Conference Chairman.
15. One Week Short Term Course on CAD/CAM (March 18-22, 2019) through ICT by Mechanical Engineering Department, NITTTR, Chandigarh (ICT-78) at NIET, Greater Noida nodal centre as Coordinator.
16. One Week FDP on Outcome Based Education (OBE-2019), (February 19-23, 2019) sponsored by Dr APJ Abdul Kalam University, Lucknow under TEQIP-III grant at NIET, Greater Noida as Program Chair.

17. One Week FDP on Advance Manufacturing Methods, (January 14-18,2019) through ICT by Mechanical Engineering Department, NITTTR, Chandigarh at NIET, Greater Noida nodal centre as Coordinator.
18. A National Conference on Advances in Welding Technology sponsored by AKTU, Lucknow [NCAWT-2018] (September 18-19, 2018) as Convenor at NIET, Gr. Noida.
19. One Week Technical Workshop on Advances in Manufacturing Processes (AMP- 2017) (November 27th to December 1st, 2017 as Convenor at NIET, Greater Noida.
20. 2nd International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering [CETCME-2017] (February 18-19, 2017) as Convenor.
21. Entrepreneurship Development Program (EDP) in collaboration with NIESBUD on 20th September 2016 at AIMT, Greater Noida as Convenor.
22. One Day Entrepreneurship Development Program (EDP) in Solar Systems Design on 07th September 2016 at AIMT, Greater Noida as Convenor.
23. One-week Short Term Training Programme (STTP) sponsored by ISTE on Modeling & Simulation of Mechanical Systems (June 6-10, 2016) as Convenor at NIET, Gr. Noida.
24. One-day Technical Workshop on Internet of Things in collaboration with Parametric Technology India Pvt Ltd (PTC) on 10th June, 2016.
25. 1<sup>st</sup> International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering (March 21-22, 2015) as Convenor at NIET, Greater Noida.
26. Faculty Development Programme on Computer Aided Design (December 30-31, 2015) in collaboration with CEPTA Infotech Pvt. Ltd. At NIET, Greater Noida as Convenor.
27. A National Seminar on Need of Entrepreneurial revolution in emerging technologies in the current global scenario (November 16,2013).
28. A National Seminar on “New Paradigm for Engineering Education in Changing Global Scenario” (4th May,2010).

**Innovative projects guided:**

1. The project “A Smart IOT and AI enabled Biogas-based Cold Storage plant” won the Fourth Best Project award in Bihar Idea Festival-2025 organized by startup Bihar.
2. The project “Implementation of Total Quality Management Methodology in Higher Education System’ Code: ME05 Level: B.Tech was ranked Second in both the categories (Social Selection and Jury Selection) in Campus Innovation Awards 2012 organized by Employability Times and Boot Strap Today (BST).
3. Team of Mr Shubham Rathor and Yashpal won the First Prize in Anveshna- 2019 with cash reward of Rs 30,000/- for its product Sugarcane cultivator. Anveshna is organized by Agastya International Foundation in partnership with Synopsys. The same team won the First prize in Technovation Hackathon organized by Sharda University in association of Greater Noida Industrial Development Authority. The prize money was Rs 30,000/-
4. Guided students of NIET to participate at NASA in “The Great Moon buggy Race 2009”, organized by NASA, US Space & Rocket Centre, Huntsville, Alabama, USA on 3rd&4th April, 2009. The NIET team grabbed the prize for the lightest Moon buggy in year 2009.
5. Guided students of NIET to participate at SAE-BAJA 2010 organized by SAE. The NIET team was among the top ten players in JK Tyre BAJA SAEINDIA 2010 competition held at NATRAX facility of Pitampur, Distt. Dhar (MP) from 29th to 31st January, 2010.

**FDP/QIP/MDP attended:**

1. Two weeks FDP on Entrepreneurial Awareness at NIT, Kurukshetra (June 25th to July 04th, 2007).
2. One week Training Programme on Marketing and Value Chain Management at IIT, Roorkee (Feb 7-11, 2011).

3. One week FDP on Thermal Engineering Applications at ITS Engineering College, Greater Noida (Jan 04 - 09, 2016).
4. One Week FDP on Mechatronics at IIMT College of Engineering, Greater Noida (May 30 – Jun 04,2016).
5. One Week Short Term Course on Optimization using MATLAB through ICT from NITTTR, Chandigarh (Oct 24 –28,2016).
6. One Week FDP on Recent Trends in Design, Control and Operations of Solar PV Systems at NIET, Greater Noida (April 23-27, 2018).
7. Short Term Course on Powder Metallurgy (PMSC-18) at College of Engineering Pune (COEP) (Oct 12-15,2018).
8. One Week Short Term Course on Advances in Manufacturing through ICT from NITTTR, Chandigarh (Jan 14 –18,2019).
9. One Week FDP on Outcome Based Education sponsored by AKTU under TEQIP-III at Noida Institute of Engineering & Technology, Greater Noida (Feb 19-23, 2019).
10. One Week Short Term Course on Computer Aided Design & Manufacturing through ICT from NITTTR, Chandigarh (Mar 18 –22,2019).
11. One Week Faculty Development Program on Teaching Techniques with Gamification (Online Live FDP) conducted by ICT Academy (May 14 - 19, 2020)
12. One Week Online workshop on Inculcating Universal Human Values in Technical Education, conducted by AICTE, New Delhi (Jun 21-25,2020).
13. One Week Short Term Training Programme on Data Science, sponsored by AICTE, New Delhi at Noida Institute of Engineering & Technology (Aug 24-29, 2020).
14. One Week Short Term Training Programme on “An introduction to Internet of Things (IOT) and its applications for Smart Transparent and Immutable Ecosystem, sponsored by AICTE, New Delhi at Noida Institute of Engineering & Technology, Greater Noida (September 14-19, 2020).
15. One Week Faculty Development Programme on “Industrial Automation – Emerging Technologies”, organized by Amity Academic Staff College in association with Amity Institute of Technology (AIT), Tata Technologies Ltd. (TTL), and Automation Industry Association (AIA), (June 07-11, 2021).
16. One Week Faculty Development Programme on “Advances in Manufacturing (AIM- 2021)”, organized by BIT Sindari, Dhanbad under TEQIP-III (June 15-19, 2021).
17. One Week Faculty Development Program 2.0 conducted by IT Vertical on Innovations and Synergies of Artificial Intelligence and Machine Learning from December 18th to December 22nd, 2023.

#### **Professional Memberships:**

1. Member of Indian Society for Technical Education (ISTE)[LM-31463].
2. Member of Powder Metallurgy Association of India (PMAI)[LM-70809].

#### **Member of National /International Advisory Board and Technical Program Committees:**

1. International Conference on Robotics, Automation & Mechanical Engineering (ICRAME 2026) <https://icrame.in/committees>
2. International Conference on Research Innovations Trends in Macro Materials, Engineering, and Technology (iCRI-TMET-2026). <https://www.socrd.org/icri-26/>
3. International Conference on Computational & Experimental Methods in Mechanical Engineering (ICCEMME-2025).
4. International Conference on Sustainability and Green Technology (ICSGT 2025). <https://fsu.edu.in/icsgt/committee.php>

5. International Conference on Communication, Computer Sciences and Engineering (IC3SE-2025). <https://amity.edu/IC3SE2025/committee.asp>
6. International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI 2025). <https://liet.in/ICSCAI-2025/committee.html>
7. International conference on intelligent Engineering and management (ICIEM – 2021) <https://www.amity.edu/iciem2021/orgc.asp>
8. Session Chair and Program Committee during the International Conference on Computation, Automation and Knowledge Management (ICCAKM 2021) held from 19<sup>th</sup> to 21<sup>st</sup> January, 2021 in Dubai.
9. Technical Review Committee Member in International Conference on Intelligent and Engineering Management (ICIEM 2020) organised by Amity University, London Campus held from 17<sup>th</sup> to 19<sup>th</sup> June, 2020.
10. Reviewer in International Conference on Automation, Computational and Technology Management (ICACTM 2019), organised by Amity University, London Campus, held from 23<sup>rd</sup>- to 26<sup>th</sup> April 2019.
11. Technical Session Chair in International Conference on Computational and Experimental Methods in Mechanical Engineering (ICCEMME 2017) organised by G L Bajaj Institute of Technology and Management, Greater Noida, UP, held on 8<sup>th</sup> & 9<sup>th</sup> December, 2017.

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**References:**

1. [https://rajbhawan.rajasthan.gov.in/content/dam/rajbhawan/pdf/Higher%20Education/chancellors-nominees/2021/3208\\_28-07-2021\\_1812.pdf](https://rajbhawan.rajasthan.gov.in/content/dam/rajbhawan/pdf/Higher%20Education/chancellors-nominees/2021/3208_28-07-2021_1812.pdf)
2. [https://mlsu.ac.in/notifications/6690\\_Scan1.JPG.PDF](https://mlsu.ac.in/notifications/6690_Scan1.JPG.PDF)
3. <https://www.niet.co.in/assets/frontend/pdf/Statutory-Committees.pdf>
4. <https://www.livehindustan.com/uttar-pradesh/lucknow/story-praveen-pachauri-will-be-the-new-director-of-upid-noida-7613121.html>
5. <https://www.dqindia.com/niet-greater-noida-wins-grand-finale-sih-2019/>



**(Dr Praveen Pachauri)**