

Curriculum Vitae

Mr. Pankaj Yadav

Assistant Professor, Mechanical Engineering Department,
Rajkiya Engineering College, Azamgarh.

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Educational Qualifications:

- PhD pursuing (Mechanical Engineering), N.I.T. Patna, January 2021- till now.
- M.Tech. (2016), Thermal Engineering, MNNIT, Allahabad.
- B.Tech. (**Gold Medalist**) (2013), Mechanical Engineering, M.M.M. Engineering College, Gorakhpur.

Professional Experience:

- Assistant Professor (Mechanical Engineering Department), REC Azamgarh from Dec 2017 to present.
- Guest Lecturer (Mechanical Engineering Department), REC Azamgarh from July 2017- Dec 2017.
- Guest Lecturer (Mechanical Engineering Department), REC Azamgarh from July 2016- June 2017.

Area of Interest:

- Solar Energy, Renewable energy, Thermal Engineering and Refrigeration and Air-conditioning.

SCI/ESCI/SCOPUS Journals Published:

- P. Yadav and O. Prakash, “Enhanced Thermal Performance of Alkali-Treated Bamboo, Coir, and Date Palm Fiber Composites for Solar Distillation Applications,” *Russ. Phys. J.*, Jun. 2024, doi: 10.1007/s11182-024-03191-4. [SCIE]
- P. Yadav, B. Singh, Subedar, S. Kumar, S. P. Singh, and S. K. Singh, “Performance Enhancement of a Hybrid Solar Still/Photovoltaic System with Mirror Reflectors, Automatic Water Cooling, and Feed Water Preheating,” *Russ. Phys. J.*, Jan. 2024, doi: 10.1007/s11182-024-03089-1.[SCIE]

- S. Srivastava, V. Kumar, P. Yadav, B. Singh, S. K. Singh, and S. K. Sarangi, “Retightening of Internal Hexagonal and Conical Dental Abutment Connections : A FEA Analysis,” pp. 1–8, 2024, doi: 10.23805/JO.2024.590.[SCOPUS]
- P. Yadav and O. Prakash, “Productivity Enhancement of Solar Stills: A review on Factors Affecting the Performance of Solar Still,” *Process Integr. Optim. Sustain.*, Jun. 2023, doi: 10.1007/s41660-023-00341-y. [SCOPUS/ESCI]
- P. Yadav and O. Prakash, “Analysis of the Exergy, Economic, and Environmental Impacts and Performance Enhancement of an Environmentally Friendly Solar Still with Drop-wise Feeding,” *Process Integr. Optim. Sustain.*, Apr. 2023, doi: 10.1007/s41660-023-00333-y. [SCOPUS/ESCI]
- B. Singh, P. Yadav, S. Srivastava, S.P. Singh, S.K. Singh, V. Kumar, and Amit Bhaskar, “Performance Improvement and Optimisation Using Response Surface Methodology (Central Composite Design) of Solar Photovoltaic Module with Reflector and Automatic Water Cooling,” *Process Integr. Optim. Sustain.*, vol. 7, no. 1–2, pp. 343–357, Mar. 2023, doi: 10.1007/s41660-022-00296-6. [SCOPUS/ESCI]
- P. Pal, P. Yadav, R. Dev, and D. Singh, “Performance analysis of modified basin type double slope multi-wick solar still,” *Desalination*, vol. 422, pp. 68–82, Nov. 2017, doi: 10.1016/j.desal.2017.08.009. [SCIE]

Conferences:

- Presented a paper titled “Productivity enhancement of solar stills: A Review” at Virtual Global Conference on Renewable Energy, 24-25 July 2021, NIT Patna, India
- Presented a paper titled “Performance optimization of solar photovoltaic module using response surface methodology (Box–Behnken Design)” at First International Conference on Advancement in Energy (ऊर्जाSangam-2023) held on December 18-20, 2023 in the Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh, India.

Book Chapters:

- S. Srivastava, V. Kumar, S. K. Singh, P. Yadav, B. Singh, and A. Bhaskar, “A Review on Application of Artificial Intelligence in Mechanical Engineering,” 2024, pp. 29–46. doi: 10.4018/979-8-3693-5271-7.ch002.
- P. Yadav, B. Singh, A. Bhaskar, S. Srivastava, and S. K. Singh, “Role of Artificial Intelligence in Renewable Energy Management for Sustainable Development,” 2024, pp. 108–124. doi: 10.4018/979-8-3693-1062-5.ch006.
- A. Bhaskar *et al.*, “Role of Artificial Intelligence in Healthcare Management,” in *Reinventing Technological Innovations with Artificial Intelligence*, BENTHAM SCIENCE PUBLISHERS, 2023, pp. 26–47. doi: 10.2174/9789815165791123010006.

Patents:

- Title of the invention: “MODIFIED VEHICLE SMOKE CLEANER”, Application No.202311071781 A, Publication Date: 24/11/2023, The Patent Office Journal No. 47/2023 Dated 24/11/2023.

- Title of the invention: “COMPOSITE GRASS STRAW WRAPPING SHEET”, Application No.202311072025 A, Publication Date: 24/11/2023, The Patent Office Journal No. 47/2023 Dated 24/11/2023

Subjects Taught:

- Thermodynamics
- Refrigeration and Air conditioning
- I.C Engine
- Applied Thermodynamics
- Heat and Mass Transfer
- Renewable Energy Resources

Seminar/FDP/Workshop/STTP/Training Attended:

- Attended FDP on “**Development of Academic Leadership in Higher Education Under NEP-2020**” held from October 30 to November 03, 2023, at Rajkiya Engineering College Mainpuri U.P.
- Attended Training Programme on “Technology based Entrepreneurship Development Programme on Internet of Things” held from 10th July to 04th August 2023 at G L Bajaj Institute of Technology and Management, Greater Noida, U.P.
- Attended FDP on “Innovations in Mechanical Engineering and Technology” held from 02 to 06th January 2023 at Rajkiya Engineering College Azamgarh.
- Attended “CATIA V5 Design Training” at Rajkiya Engineering College Azamgarh held from 19-24th December 2022.
- Completed industrial training in “AUTOCAD” conducted by the National Institute of Electronics and Information Technology (NIELIT,) MMM University campus, Gorakhpur U.P-273010, from 31/05/2022-28/06/2022.
- Completed “ANSYS Mechanical & CFD Training” conducted by ARK Infosolution Pvt. Ltd. from 01/06/2021-10/06/2021.
- FDP course on “Solar Energy Engineering and Technology” through SWAYAM, NPTEL from Sep-Dec, 2020.
- Attended one-week FDP on “Computational Tools and Techniques MATLAB, ANSYS” jointly organized by Government Engineering College, Karad (M.S.) and Rajkiya Engineering College Azamgarh, held from 27-01 May 2020.
- Completed a 2-week “Digital Transformation in Teaching Learning Process” course through SWAYAM, NPTEL from 16-30 March 2020.
- FDP course on “Energy Conservation and Waste Heat Recovery” through SWAYAM, NPTEL from July-Oct, 2019.
- Attended FDP on “Recent Advancement in Mechanical Engineering” at Rajkiya Engineering College Azamgarh held from 19-23 August 2019.
- Attended one week of FDP on “Application of Optimization Methods in Engineering” held from 05-09th August 2019.

- Attended STTP on “Fundamentals and Applications of Computational Fluid Dynamics (CFD)” jointly organized by Government Engineering College, Karad (M.S.) and Rajkiya Engineering College Azamgarh, held from 02-06 April 2019.
- FDP course on “IC Engines and Gas Turbines” through SWAYAM, NPTEL from Jan-Apr, 2019.
- Attended Workshop on “Active Learning, Autonomy, Academic Governance and R & D” organized by IIT Roorkee, June 18th – 22nd, 2018.
- Attended FDP on “Total Quality Management” held from 4th to 8th June 2018 at Rajkiya Engineering College Azamgarh.
- Attended “Entrepreneurship Awareness Camp” from 19th -21st April 2018 at REC Azamgarh.
- Attended “A NBA workshop on Outcome Based Education” held on 16 -17th March 2018 at Rajkiya Engineering College Azamgarh.

Seminar/Workshop/STTP Organized:

- **Program coordinator** of the one-week workshop on “**30 Hours instructor-led live online hands-on based training of internet of things**”, at Rajkiya Engineering College Azamgarh held on 21-25 November 2023.
- One-week workshop on “Hands-on-Training on ANSYS and MATLAB” at Rajkiya Engineering College Azamgarh held on 17-21 February 2020.
- One-week FDP on “Recent Advancement in Mechanical Engineering” at Rajkiya Engineering College Azamgarh held on 19-23rd August 2019.
- Two-day seminar on “Value Based Education” at Rajkiya Engineering College Azamgarh held on 25-26 July 2019.
- Three Days “Gyan Technical Program” under Yantriki club, at Rajkiya Engineering College Azamgarh held on 05-07th October, 2018.
- One-week workshop on “Corporate Expectation and Academia” at Rajkiya Engineering College Azamgarh held on 15-19th September 2018.
- One Week “Startup Summit Program” at Rajkiya Engineering College Azamgarh held on 04-08th September 2018.
- One-week FDP on “Total Quality Management” held on 04-08th June 2018 at Rajkiya Engineering College Azamgarh.
- “Entrepreneurship Awareness Camp” from 19-21st April 2018 at Rajkiya Engineering College Azamgarh.

Current Administrative Responsibilities:

- Nodal officer I/c Scholarship, R.E.C Azamgarh.

Past Administrative Responsibilities:

- Deputy CARE I/c, R.E.C. Azamgarh
- Nodal I/c National Academic Depository (NAD)
- ODOP Member
- Unnat Bharat Abhiyan Member
- Institute Store Officer I/c, R.E.C Azamgarh