Mr. Dinesh Yadav

Skill Assistant Professor
Skill Department of Automotive Studies
Skill Faculty of Engineering & Technology
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Member of Learned Societies

- Life Member, Indian Science Congress Association.
- Member, Hong Kong Society of Mechanical Engineers (HKSME).

Areas of Interest: Piezoelectric Energy Harvesting, Green Energy, Finite Element Analysis, Ansys, Biomechanics, Implants, Femoral Locking Plate, Topology Optimization, 3D Printing, Fused Deposition Modeling (FDM), ANFIS, Artificial Neural Networks, Artificial Intelligence in Healthcare

Academic Qualifications

Ph.D., Mechanical Engineering (Pursuing)
Deenbandhu Chhotu Ram University of Science and Technology (DCRUST), Murthal, Haryana
Supervisor: Prof. R.K. Garg
Thesis: *Material and topology optimization of Femoral Locking Plate using simulation-based approach*

M. Tech, Mechanical Engineering (2016 – 2018)
Maharshi Dayanand University (MDU), Rohtak, Haryana – GPA 8.82
Thesis: *Blueprint of energy cultivation through piezoelectric material – A future of green power generation*

B. Tech, Mechanical Engineering (2010 – 2014)
UIET, Maharshi Dayanand University, Rohtak, Haryana – 72.77%

Senior Secondary (2009)
Board of School Education Haryana (BSEH) – 76.00%, with Distinction

Professional Experience

Skill Assistant Professor – Shri Vishwakarma Skill University, Palwal, Haryana
March 2022 – present (Approx. 4.5 Years)

Research Scholar, Mechanical Engineering – DCRUST, Murthal, Haryana
August 2018 – present

ACADEMIC CONTRIBUTIONS

Patent Granted: Dinesh, Garg, R.K., Rajkumar, Kumar, S., Yadav, M. and Yadav, R. (2025). 3D Printer Frame Structure Comprising Multiple Gantries with a Rotary Bed. Indian Patent No. 566580, The Patent Office, Government of India. (Granted)

Publications: Peer-Reviewed Journals

1. Yadav, D., Yadav, J., Vashistha, R., Goyal, D.P. and Chhabra, D. (2019). Modeling and simulation of an open channel PEHF system for efficient PVDF energy harvesting. *Mechanics of Advanced Materials and Structures*, pp. 1–15. (SCI, IF 2.645)
2. Yadav, J., Yadav, D., Vashistha, R., Goyal, D.P. and Chhabra, D. (2019). Green energy generation through PEHF – a blueprint of alternate energy harvesting. *International Journal of Green Energy*, 16(3), pp. 242–255. (SCI, IF 2.75)
3. Yadav, D., Garg, R.K., Chhabra, D., Yadav, R. and Shukla, P. Smart diagnostics devices through artificial intelligence and mechanobiological approaches. *Applied Microbiology and Biotechnology*. (SCI, IF 3.67; under process)
4. Yadav, D., Chhabra, D., Gupta, R.K., Phogat, A. and Ahlawat, A. (2020). Modeling and analysis of significant process parameters of FDM 3D printer using ANFIS. *Materials Today: Proceedings*. DOI: 10.1016/j.matpr.2019.11.227 (Scopus)
5. Yadav, D., Chhabra, D., Garg, R.K., Ahlawat, A. and Phogat, A. (2019). Optimization of FDM 3D printing process parameters for multi-material using artificial neural network. *Materials Today: Proceedings*. (Scopus)
6. Yadav, M., Yadav, D., Kumar, S., Garg, R.K. and Chhabra, D. Experimental and mathematical modeling and analysis of piezoelectric energy harvesting with dynamic periodic loading. *IJRTE*, 8(3), pp. 1–5. (Scopus)
7. Yadav, D. and Sehrawat, R. (2019). A review on 3D printing technology application in healthcare. *IJRnDESM*, 8, pp. 1–5. (UGC approved)
8. Yadav, D. and Sehrawat, R. Healthcare and artificial intelligence: image processing an emerging tool. *International Journal of R&D in Engineering, Science and Management*, 7, pp. 9–15. (UGC approved)
9. Yadav, D. and Sehrawat, R. (2018). Artificial intelligence integration in healthcare and medicine. *Artificial Intelligence*, 7(4). (UGC approved)
10. Yadav, J., Yadav, D. and Goyal, D.P. (2016). A review on advance piezoelectric energy harvesting and their circuitry system. *International Journal of R&D in Engineering, Science and Management*, 4(7), pp. 8–17. (UGC approved)
11. Yadav, J. and Yadav, D. Design of an open channel fluid flow system for piezoelectric energy harvesting. *International Journal of Latest Trends in Engineering and Technology*, 8(4-1), pp. 244–249. (UGC approved)

Book

Translated the AICTE Diploma Level Technical Book “Advanced Manufacturing Processes” into Hindi.

Book Chapters

1. Vashistha, R.*, Yadav, D.*, Chhabra, D. and Shukla, P. Artificial intelligence integration for neurodegenerative disorders. In: *Leveraging Biomedical and Healthcare Data*, eds. K. Wang, A. Alawieh, F. Zaraket, F. Kobeissy. Elsevier. (*joint first author)
2. Comparative analysis of mechanical behavior of femur bone of different age and sex using FEA (2022). Book chapter. DOI: 10.1007/978-981-16-9613-8_3

Conferences

1. Yadav, D. and Garg, R.K. (2019). Comparison of green energy harvested using single and double parallel circuit configuration of PZT piezoelectric patch by application of hydrodynamics. *Indian Science Congress Association*, January 3–7.
2. Yadav, D. and Chhabra, D. (2018). Design of an open channel fluid flow system for piezoelectric energy harvesting. *International Conference on Innovative Research in Engineering, Computers and Sciences*, January 19–21.

Short-Term Courses / FDPs

- Quality Control for Products, Processes, or Services – M.D. University, Rohtak, 22–27 July 2019
- Moral Values and Ethics in Professional Education – DCRUST, Murthal, 1–6 November 2019

I hereby declare that the above information is true to the best of my knowledge.

Dinesh Yadav