DR PARAMJIT THAKUR

DEPARTMENT OF MECHANICAL ENGINEERING

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

CONTACT

📞 9930580782

✉ paramjit.thakur@fragnel.edu.in

📍 201 bwing, maitri icon, sector 19, kharghar, 410210

EDUCATION

(VJTI MUMBAI)

Ph.D: Production Engineering (2024)

- Thesis title: **Optimization and process monitoring in submerged abrasive waterjet cutting**

PSG college of Engg (Coimbatore)

M.E: Production Engineering (2014)

- Thesis title: **Optimization of parameters in CNC milling by Tughuci-Grey-Fuzzy logic**

University Of Mumbai

B.E: Mechanical Engineering (2011)

- **Thesis title: Optimization in manufacturing of solar powered hovercraft**

PROFILE

Dr Paramjit Thakur is currently working as assistant professor at **Fr. Conceicao Rodrigues College of Engineering.** He completed his Ph.D in production engineering from VJTI, Mumbai. His research area deals with application of statistical and artificial intelligence based methods in manufacturing problems

WORK EXPERIENCE

Assistant Professor (Fr. Conceicao Rodrigues College of Engineering)

Duration: June 2025 till date

Assistant Professor (Saraswati college of Engg)

Duration: June 2014 till May 2025

SUBJECT TAUGHT & RESEARCH AREA

- Production process
- Optimization techniques
- Statistics for artificial intelligence and data science
- Quantitative techniques
- Material science
- Disaster Management and Mitigation Measures

REFERENCE

Dr D.N Raut
Professor, VJTI Mumbai
Phone: 9869699909
Email :dnraut@pe.vjti.ac.in

Dr Fauzia Siddiqui
Professor, JECRC Rajasthan
Phone: 9819695582
Email : fauziasiddiqui.me@jecrc.ac.in

Publications (International Journal-*Scopus/SCIE*)

- Thakur, P., Khemchandani, M. & Deshmukh, M. Statistical and Artificial Intelligence-Based Modeling of Multi-Parameter Evaluation Index (MPEI) in Abrasive Waterjet Cutting Process. Arab J Sci Eng (Research article-Mechanical) (2025). https://doi.org/10.1007/s13369-024-09901-x (SCIE-springer)

- Thakur, P. M., & Raut, D. N. (2022). Process monitoring in submerged abrasive waterjet cutting of Ti6Al4V by vibration signal. Advances in Materials and Processing Technologies, 9(3), 1061– 1090. https://doi.org/10.1080/2374068X.2022.2109258 (Scopus-Taylor & Francis)

- Thakur P.M; Maurya P; Raut D.N; Dongre, M. Experimental investigation and multiobjective optimisation in abrasive waterjet machining by coupled fuzzy-AHP and fuzzy-TOPSIS. International Journal of Computational Materials Science and Surface Engineering (IJCMSSE), Vol. 12, No. 1, 2024 DOI: 10.1504/IJCMSSE.2024.139013 (Scopus-Inderscience)

- Thakur, P. M., & Raut, D. N. (2022). Sensor-based process control of abrasive waterjet machining: a review. International Journal of Machining and Machinability of Materials (IJMMM), Vol. 25, No. 3/4, 2023 DOI: 10.1504/IJMMM.2023.136022 (Scopus-Inderscience)

- Thakur, P. M., & Raut, D. N. (2023). Experimental investigation on surface topography in submerged abrasive waterjet cutting of Ti6Al4V. Advances in Industrial and Manufacturing Engineering. Volume 6, May 2023, 100113, https://doi.org/10.1016/j.aime.2023.100113 (Scopus-Elsevier)

- Thakur, P. M., Raut, D. N., Lade, P. R., & Kudalkar, S. (2023). Development of operations in waterjet technology: a review. Advances in Materials and Processing Technologies, 10(4), 3835– 3884. https://doi.org/10.1080/2374068X.2023.2277983 (Scopus-Taylor & Francis)

- Thakur, P., Khemchandani, M. & Deshmukh. Modeling of Overall quality index in abrasive waterjet industry. Soft Computing. (Under revision) (SCIE-Springer)

- Thakur, P. M., Raut, D. N, Dongre M, Quality optimization by metaphor less algorithms: A case study of abrasive waterjet industry. International Journal of Machining and Machinability of Materials (IJMMM) (accepted-Scopus-Inderscience)

- Deshmukh, M., Khemchandani, M., & Thakur, P. M. Contributions of brain regions to machine learning-based classifications of attention deficit hyperactivity disorder (ADHD) utilizing EEG signals. Applied Neuropsychology: Adult, (2024) 1–15. https://doi.org/10.1080/23279095.2024.2368655 (SCIE-Taylor & Francis)

- Deshmukh, M., Khemchandani, M., & Thakur, P. M. (2024). Comparative analysis of electroencephalogram (EEG) data gathered from the frontal region with other brain regions affected by attention deficit hyperactivity disorder (ADHD) through multiresolution analysis and machine learning techniques. Applied Neuropsychology: Child, 1–15. https://doi.org/10.1080/21622965.2024.2405719 (SCIE-Taylor & Francis)

Publications (International Journal-*Scopus/SCIE*)

- Deshmukh, M. P., Khemchandani, M., & Thakur, P. M. (2024). Exploring role of prefrontal cortex region of brain in children having ADHD with machine learning: Implications and insights. Applied Neuropsychology: Child, 1–13. **https://doi.org/10.1080/21622965.2024.2378464 (SCIE-Taylor & Francis)**

Book Chapters-*Scopus*

- Thakur, P., Raut, D.N., Siddiqui, F. (2022). Modeling and Simulation in Waterjet Technology. In: Vashista, M., Manik, G., Verma, O.P., Bhardwaj, B. (eds) Recent Innovations in Mechanical Engineering. Lecture Notes in Mechanical Engineering. **Springer,** Singapore. **https://doi.org/10.1007/978-981-16-9236-9_15**
- Thakur, P., Raut, D.N., Siddiqui, F. (2022). Recent Applications, Developments and Challengesin Waterjet Technology. In: Vashista, M., Manik, G., Verma, O.P., Bhardwaj, B. (eds) Recent Innovations in Mechanical Engineering. Lecture Notes in Mechanical Engineering. **Springer,** Singapore. **https://doi.org/10.1007/978-981-16-9236-9_14**
- Thakur, P., Teli, S.N., Lad, S. (2019). Multiobjective Optimization in Drilling of Composites. In: Vasudevan, H., Kottur, V., Raina, A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notesin Mechanical Engineering. **Springer,** Singapore. **https://doi.org/10.1007/978-981-13-2490-1_25**

Conference proceeding-*Scopus*

- Thakur, P, Rajesh R. Optimal Selection of Process Parameters in CNC End Milling of Al 7075-T6 Aluminium Alloy Using a Taguchi-fuzzy Approach. Procedia Materials Science. Volume 5, 2014, Pages 2493-2502. **https://doi.org/10.1016/j.mspro.2014.07.501 (Elsevier)**
- P. Thakur, J. A. Khan, M. Dongre and S. Gupta, "Multi Objective Optimization in CNC End Milling of Inconel 718 Super Alloy by Taguchi-Grey-Fuzzy Method," 2019 International Conference on Nascent Technologies in Engineering (ICNTE), Navi Mumbai, India, 2019, pp. 1-4, **doi: 10.1109/ICNTE44896.2019.8945898 (IEEE)**

Patent

- Title: A methodology to quantify surface contamination (Grit embedment) in abrasive waterjet cutting Application number: 202321027107 Status: Published (waiting for exam)

Coordinator/talks delivered/Add on courses

- Coordinator at "National Conference on Sustainable Manufacturing & Waste Management" Saraswati college of engineering.
- Coordinator at "Global meet on advancesin Design, Materials and Thermal engineering " Saraswati college of engineering.
- Coordinator at five days faculty development program "Hands-on workshop on reference management, Bibliometric review and multi criteria decision making" at Saraswati college of engineering.
- Delivered a 12 hrs Add on course on " Application of artificial intelligence in Mechanical Engineering", at Saraswati College of Engineering.
- Delivered A talk on " Machine learning in Manufacturing" at JECRC Rajasthan
- Session Chair at "International conference on Engg trends in Education System & Sustainability"(ICETESS-2025), JECRC Jaipur

Personal information

Name: Dr Paramjit Thakur
Fathers Name: Mahesh Thakur
D.O.B: 30/10/1988
Gender: Male
Nationality: Indian
Marital Status: Married

Disclaimer

I hereby declare that all the information and facts given above are accurate to the best of my knowledge and belief

Signature