Parveen

(Skill Instructor)

Email id: parveen.rathee@svsu.ac.in

Contact no.: 9355111324

Qualification: PhD-Pursuing, M. Tech, B.Tech.

Research Publications:

Paper Published

1. Kumar, A., Sharma, N., Magdum, R., Dogra, N., & **Kumar, P.** (2026). Investigation of forming process parameters for AA-2024-O using an integrated NSGA-II–MOORA approach. Journal of Engineering and Applied Science, 73(1), 169. https://doi.org/10.1186/s44147-026-01029-z (**Scopus indexed)**
2. Kumar, R., Phanden, R.K., **Kumar, P.,** Kumar, A. Analysis of roadblocks and enablers of net-zero in Indian manufacturing SMEs. Discov Sustain (2026). https://doi.org/10.1007/s43621-025-02487-w (**Scopus, ESCI indexed)**
3. Sunkara, J. K., Babu, P. K., **Kumar, P.,** & Kumar, A. (2025). Dimensional accuracy and surface quality in Wire-Cut EDM of Ti6Al4V: experimental study and optimization. Journal of Engineering and Applied Science, 72(1), 217. https://doi.org/10.1186/s44147-025-00801-x (**Scopus indexed**).

Books Published

1. **Emerging Trends in Industrial Engineering and Management, CRC Press, Taylor and Francis**, ISBN: 9781003512585, https://doi.org/10.1201/9781003512585 **SCOPUS Indexed, Edited.**
2. **Smart Materials: Biomaterials, Coatings, Energy, Sensors and Structural Engineering**, **De Gruyter,** ISBN: 978-3-11-151283-9, https://doi.org/10.1515/9783111515717 **SCOPUS Indexed, Edited.**
3. **Emerging Trends in Medical Robotics: Technologies, innovations and applications, Elsevier,** ISBN: 9780443330285**,** https://doi.org/10.1016/C2024-0-00465-1 **SCOPUS Indexed, Edited.**
4. **Micro- and Nano-scale Surface and Interface Engineering: Synthesis, Characterization, and Applications** (**Elsevier**), ISBN: 9780443335532, https://doi.org/10.1016/C2024-0-00725-4 **SCOPUS Indexed, Edited.**

5. **Emerging Trends in Manufacturing Technologies** (**Elsevier),** ISBN: 978-0-443-33645-4, https://doi.org/10.1016/C2024-0-00540-1 **SCOPUS Indexed, Edited.**
6. **Composites and Industry 4.0: AI, Digital Twins, and Immersive Technologies in Materials Engineering, (De Gruyter),** ISBN: 978-3-11-224540-8, In Production

Book Chapters

1. Bishnoi, P., Kumar, A., & **Kumar, P.** (2026). Micro- and nanoscale surface engineering for tribological enhancement. In Elsevier eBooks (pp. 353–372). https://doi.org/10.1016/b978-0-443-33553-2.00002-3

2. Rattan, N., Jain, A., Kumar, M., Yadav, S. K., **Kumar, P.,** & Kumar, A. (2026). Novel approaches to machining nonconducting materials via electrochemical discharge machining. In A. Kumar, P. Kumar, & J. P. Davim (Eds), Emerging Trends in Manufacturing Technologies (pp. 161–174). https://doi.org/10.1016/B978-0-443-33645-4.00002-4 (**Scopus indexed**).

3. Gupta, S., Sharma, V., Jain, S. K., Singhal, P., **Kumar, P.,** Sharma, N., & Kumar, A. (2026). The evolution of tissue engineering: A comprehensive overview of three-dimensional (3D) printing applications. In A. Kumar, P. Kumar, & J. P. Davim (Eds), Emerging Trends in Manufacturing Technologies (pp. 175–197). https://doi.org/10.1016/B978-0-443-33645-4.00016-4 (**Scopus indexed**).

4. Gautam, T., Dhankhar, G., Anand, S., Kumar Satyarthi, M., **Kumar, P.,** & Kumar, A. (2026). An introduction to Internet of things sensors for digital twins in home and manufacturing environments. In A. Kumar, P. Kumar, & J. P. Davim (Eds), Emerging Trends in Manufacturing Technologies (pp. 241–256). https://doi.org/10.1016/B978-0-443-33645-4.00018-8 (**Scopus indexed**).

Area of Interest: Incremental Sheet Forming, Additive Manufacturing, Smart manufacturing, Optimization Techniques, Smart Materials and Industry 4.0

Software Skills:

- Minitab and Design Expert for design of Experiments
- AutoCad Computer Aided Design (CAD)

- Ultimaker Cura, Chitubox for Additive manufacturing
- Proficiency in MS office – PowerPoint, M.S.Word, Excel