Curriculum Vitae

Dr. Rajeev Sharma

(B. Tech, MTech, GATE-19, Ph.D.)



➢ Contact Information

Address: 91-A, Krishna Dham, Near Kalpana Public School, Agra Road, Vijay Pura, Jaipur-302031, India

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➢ Education Qualification

Qualification	Specialization	Year of Passing	Institute/University	CGPA/%
Ph.D.	Mechanical Engineering	2023	BSDU, Jaipur	Award
GATE	ME	2019	-	352 (Score)
M.Tech.	Production Engineering	2018	RTU, Kota	68%
B.Tech.	Mechanical Engineering	2015	RTU, Kota	69%

➢ Professional Experience

Organization	Designation	Time Period
CIPET, Jaipur	Lecturer (Additional Charge – Admission, NBA & Placement)	06.03.2024-Till date
RIET, Jaipur	Assistant Professor & TPO	06.05-2023-01.03.2024
M.K. Motors, Alwar	GET	01.08.2017-30.07.2018

- **Job Responsibility**

❖ NBA Coordinator for Diploma courses.

❖ Admission In-Charge

❖ Placement In-Charge

❖ NAAC Coordinator.

❖ Course In-Charge

❖ Club Activities Coordinator.

❖ Course In charge of DPT.

- **Research Focus and Interest**

❖ Advance Machining Process

❖ Cryogenic Machining

❖ Process Optimization

❖ Lean Manufacturing

❖ Six Sigma

- **Software Proficiency**

❖ AutoCAD, Solid works, Minitab, MATLAB

- **Short Biodata**

I am currently holding the position of Lecturer in the Mechanical Engineering Department at the Central Institute of Petrochemicals Engineering & Technology (CIPET), Jaipur. Before this, I served as an Assistant Professor in the same department at RIET, Jaipur May 05, 2023 to march 01, 2024. I did my B.Tech. with the specialization in Mechanical Engineering from RTU Kota, graduating with a 69 % in 2015. I did my M.Tech. with the specialization in Production Engineering from Govt. Engg. College, Ajmer in 2018. Also, I did Ph.D. with the

specialization in Mechanical Engineering from Bhartiya Skill Development University, Jaipur in 2023. My research interests in advance machining process, process optimizations and cryogenic machining, as evidenced by extensive publication record, in various peer-reviewed journals, conferences, and book chapters. I received the Best Paper Award in the International Conference. Apart from the academic endeavours, I actively participate in outreach activities, serving as a reviewer for esteemed journals such as Materials Today: Proceedings (Elsevier) etc. Throughout in my career, I have consistently demonstrated dedication to teaching, research, and academic leadership.

➢ Outline of Self Ph.D. Work

I did my Ph.D. research work on the machinability investigation of duplex stainless steel (DSS) 2205 under different types of cooling environments e.g. dry, flood (wet), MQL, cryogenic (LCO_2), and MQL-LCO_2. TiAlN-coated solid carbide drill was used for drilling DSS 2205 because DSS has 31 HRC, so it is difficult to cut material.

➢ Publications

SCI/SCIE/SCOPUS

1. Sharma, R., Kumar Jha, B., & Pahuja, V. "Application of Taguchi Coupled with Genetic Algorithm (GA) for Optimizing Surface Quality in Drilling of Duplex Stainless Steel 2205". Journal of Process Mechanical Engineering. SCI Index Journal. SCI/SCIE Index Journal. https://doi.org/10.25384/SAGE.c.6415333.v1.
2. Sharma, R., Kumar Jha, Binit., Pahuja, Vipin. "Modeling of Process Parameters on DSS 2205 through RSM, ANN, Fuzzy Under Cryo-MQL Process". Journal of Physics. Web of Science and Scopus Index Journal

(ISSN 1742-6588)

3. Sharma, R., Kumar Jha, Binit., Pahuja, Vipin. “Parametric Optimization on Drilling DSS 2205 Through Multi-Objective TOPSIS Under Sustainable Machining”. Nanoworld Journal. Scopus Index Journal (ISSN 2379-1101)

4. Sharma, R., Kumar Jha, B., Pahuja, V. (2021). “Impact of environmental friendly machining on machinability: A review,” in Materials Today: Proceedings (Elsevier), vol. 46, pp. 10362–10367. doi: 10.1016/j.matpr.2020.12.498. Scopus Index Journal (ISSN 2214-7853)
5. Sharma, R., Kumar Jha, B., Pahuja, V. (2020). “A Critical Review on Machining of Titanium and Its Alloy under Cryogenic Cooling Environment,” in Materials Science and Engineering, Dec. 2020, vol. 998, no. 1. doi: 10.1088/1757-899X/998/1/012013. Scopus & Web of Science index Journal (ISSN 1757-8981)
6. Sharma, R., Kumar Jha, B., Pahuja, V., Sharma, S. (2022). “Evaluation of Machinability on duplex stainless steel 2205 under dry and Wet condition” Materials Today Proceedings (Elsevier). https://doi.org/10.1016/j.matpr.2022.05.47. ScopusIndex Journal (ISSN 2214-7853)
7. Sharma, R., Kumar Jha, B., Pahuja, V., Sharma, S. (2021). “Role of environmental friendly machining on machinability,” Materials Today: Proceedings (Elsevier). doi:10.1016/j.matpr.2021.03.652. Scopus Index Journal (ISSN 2214-7853)
8. Sharma, R., Kumar Jha, B., & Pahuja, V. (2022). Application of RSM and ANN for theprediction and optimization of the circularity error of DSS 2205 under hybrid cryo- MQL process. Journal of Xi’an Shiyou University, Natural Science Edition. ScopusIndex Journal (ISSN 1673-064X).

9. Sharma, R., Jha, B.K., & Pahuja, V. (2021). Optimization Techniques for Response Predication in Metal Cutting Operation: A Review. Lecture Notes on Multidisciplinary Industrial Engineering. Springer https://doi.org/10.1007/978-3-030-73495-4_6. (Scopus Index)

UGC Approved/Referred Journal

1. Sharma, R., Kumar Jha, B., & Pahuja, V. (2021). A comprehensive review on evaluation of environmental friendly machinability, cutting fluids, and techniques in metal cutting operation. International Journal of Approximate Reasoning, 9, 223-235. Http://dx.doi.org/10.21474/IJAR01/12677. Publon's Web of science Indexing Journal)
2. Sharma, R., Jha, B.K., & Pahuja, V. (2021). "Role of Sustainable Techniques In Manufacturing Process: A Review". International Journal of Engineering Technologies and Management Research, 8(2), 41-45. https:// doi.org/ 10.29121 /ijetmr.v8.i 2.2021.869. Thomson Reuters Indexing Journal
3. Sharma, R., Kumar Jha, B., & Pahuja, V. (2022). Role of environmental friendly machining: in prospect to sustainable manufacturing. In International Journal of Engineering Technology Research & Management, 6, 414-153. Thomson Reuters Indexing Journal.

Total Citation: 65

H-index:6

Patent

1. **Title-** **"**AN ARTIFICIAL INTELLIGENCE AND IOT BASED SYSTEM FOR REGENERATIVE MEDICINE FOR THE TREATMENT OF LIFE-THREATENING DISEASES AND WORKING METHOD THEREOF"**.**

   Status – Published (Application No. 20224106).

2. Title- "A hybrid nozzle for improving the machinability of difficult-to-cut material.

   Status – Submitted

Book Published

1. Author Name- Rajeev Sharma, Binit Kumar Jha, Vipin Pahuja

Title: "Set up Design and Parametric Optimization of Abrasive Flow Machining" (ISBN-13: 978-6203532593).

Publisher: Lambert.

2. Author Name- Rajeev Sharma, Sagar Sharma,

Anita Sharma Title: "Parametric Analysis of

electrochemical micromachining".Publisher: Lambert.

3. Author Name- Rajeev Sharma, Binit Kumar,

Vipin Pahuja

Title: "A Brief Overview on Environmental Friendly Machining Techniques".

Publisher: Lambert.

➢ Students Guide

Course	B. Tech	M.Tech	Ph.D.
No. of Students	9	3	-

➢ Short Term Courses/Workshops

S.No.	Name
1	3rd Indo- German Workshop on Sustainable Engineering. Place: BITS Pilani. Periodand Time: 3rd – 4th Nov. 2015.
2	Short Term Course on Science and Technology to Save the Environment. Place: GEC,Ajmer. Period and Time: 23rd-27th Nov. 2015.
3	4thIndo- German Workshop on Sustainable Engineering. Place: BITS Pilani. Periodand Time: 17th – 18th Sept. 2016.
4	Short course on teaching methodologies for engineering mathematics. Place: IITGandhi nagar. Period and Time: 15-17 Feb 2017.
5	FDP on Pedagogy of Scientific Writing, Reporting, and Scholarly Networks. Place:FGIET, Raebareli Period and Time- 19-23 June 2020.
6	Two days national workshop on interview skills. Place: NIT, Jalandhar. Period andTime- 15-16 June 2020.
7	FDP on Optimization Techniques & Tools for Mechanical Engineers. Place- SIST,Hyderabad. Period and Time- 22-27 June, 2020.

➢ Course Taught

S.No.	Course Name	Diploma/UG/PG	Institute

1	Manufacturing Process	UG	CIPET, Jaipur
2	Non-Conventional Machining Process	UG	CIPET, Jaipur
3	MOS	UG	CIPET, Jaipur
4	BME	UG	CIPET, Jaipur
5	Engineering Materials	Diploma	CIPET, Jaipur
6	Applied Mechanics	Diploma	CIPET, Jaipur
7	BME	UG	RIET, Jaipur
8	Engineering Mechanics	UG	RIET, Jaipur
9	Manufacturing Process	UG	RIET, Jaipur
10	Metal Forming	PG	RIET, Jaipur
11	Data Analytics Lab	PG	RIET, Jaipur

- **References**

1. Prof. B.K.Jha [Ph.D. Supervisor]

Professor

School of Manufacturing Skills

Bhartiya Skill Development University, Jaipur

Email: binitkumar.jha@ruj-bsdu.in

2. Dr. Vipin Pahuja

Assistant Professor

School of Automotive Skills

Bhartiya Skill Development University, Jaipur

Email: Vipin.pahuja@ruj-bsdu.in