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| --- | --- | --- | --- | --- |
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**Areas of Interest**

* Conventional & Non-Conventional Machining Processes
* Micro manufacturing
* Additive Manufacturing
* Modelling of Machining Processes (Statistical Modelling, Neural Networks
* Optimization & Simulation, Machine learning)
* Machining of Difficult-to-Machine Materials and Composites
* Condition Monitoring
* Modeling & Optimization of Manufacturing Systems
* MCDM Methods; Decision-Making Tools, Soft Computing Techniques
* Surface Texturing / Surface Coating

Publications

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| --- | --- |
| **Publication** | * International Journals 90 (SCI/Scopus indexed: 85) * National Conference- 08 * International Conference. 70 * Book Chapters 25 * Book 3 (Scopus indexed: 02, web of science indexed :01) * Conference Proceedings as Editor 03 * Journal editorial 04 * Editor-in-Chief, International Journal 01 * Editorial Board Member of Reputed International Journal 07 * Guest Editor, Special Issue 05 * Key Note Lectures/Session Chairs: 22 (International and National Conferences)   **Total Published Paper \_\_\_180\_\_\_\_** |

**International Journals:**

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* Jaurker, Diksha, and **Mohan Kumar Pradhan**. "Finite element modelling for electrical discharge machining of Ti-6Al-4V alloy and multi-objective optimisation using response surface modelling." *International Journal of Simulation and Process Modelling* 20.1 (2023): 21-30.
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3. **M.K. Pradhan** A Kumar and A Verma, **Proc. of International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends (IC IMPACT – 2014)**
4. C.**M. Krishna, A.R. Siddiqui and M.K. Pradhan, Proc. of 1st International Conference on Mechanical Engineering: Emerging Trends for Sustainability (IC MEETS – 2014)**
5. **Verma, A., Kumar, A. and Pradhan, M.K., 2014. Advancements and Current Trends in Industrial, Mechanical and Production Engineering.**

**Other Info.**

**Experience Description:**

* Associate Professor, NIT Raipur, Chhattisgarh, India from Jan 20203 to till Date
* Assistant Professor, MANIT Bhopal, Madhya Pradesh, India from 2010 to Aug 2023

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| **Number of P.G. Projects /Ph.D. guided** |  | * Ph.D. Guided: 03 + 02 (Submitted)   (in the area of Modelling and optimization of manufacturing processes, condition monitoring) |
| **Number of P.G. Projects guided** |  | 42 M.Tech Thesis Supervised (in the area like manufacturing, design analysis, and development and characterization of advanced material) |
| **Project/ Consultancy undertaken** |  | * Project 03, (Completed) * Integrated Modelling and Analysis of Machining of Composite Materials on Advanced Machining Machines, MHRD, MANIT (Grant in Aid), July 2011 to July 2013. (Completed). * Development and machinability of metal matrix composites for industrial application 2016-2018 (Completed). * Consultancy 01 |
| **Member of professional bodies** |  | 1. Chartered Engineer IE(I) 2. Institution of Engineers (India) Fellow 3. Indian Society of Technical Education Life Member of 4. Life Fellow, Indian Institution of Production Engineers (IIPE) 5. IACSIT, Member 6. IAENG, International Association of Engineers, member |

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| **Achievements/ Awards** |  | * Has been featured in the list of the **top 2% of world** scientists *in 2021, 2022 and 2023, which was prepared by a team of scientists at the US Stanford University.* * A member of the Research Council of KIST, Bhubaneswar, Odisha, recognized as Scientific and Industrial Research Organization (SIROs) by DSIR under the ministry of Science and Technology, Government of India. |

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| **Conferences/Course organized** |  | |  | | --- | | 1. Comprehensive certificate course on “CNC Milling Operation and Programming” scheduled to be held from September 9th to 14th, 2024 at the National Institute of Technology, Raipur.  **Coordinator** 2. Comprehensive certificate course on “CNC Turning Operation and Programming (CNCTOP2024)” (Offline mode) 19th– 24th August 2024 at the National Institute of Technology, Raipur.  **Coordinator** 3. One-week 2nd online workshop on "Computational and Experimental Methods in Manufacturing (CEMM-2022**)**" during 07–11 March 2022 as **Coordinator** 4. One-Week online workshop on **“**Computational and Experimental Methods in Manufacturing (CEMM-2021)” 22-26 Feb. 2021 as **Coordinator** 5. One-week SHORT TERM TRAINING PROGRAMME on “*Research Oriented Training on CNC Machines” (*Self-sponsored) *during 14-18, December 2017* as **Coordinator** 6. Six days FDP on “Advances in Product Design and Manufacturing [APDM]”. Supported by: Electronics and ICT Academy, IIITDMJ, an initiative of Department of Electronics & IT, Ministry of Communications and IT, Govt. of India, during January 3-8, 2017 as **Coordinator**. 7. One Week Short Term Training Program On *"Recent Advancements in Product Innovations and Design (RAPID 2014)"* During February 17th-21st 2014 as **Coordinator** 8. OrganizingInternational Conference on Advances in Materials and Manufacturing Technology, AMMT-2022, November 22–26, 2022, as Coordinator (M.P.), (An Institute of National Importance), as **Organizing Secretary** 9. International Conference on Industrial, Mechanical, and Production Engineering: Advancements and Current Trends, November, 27- 29, 2014, as **Coordinator** 10. Organized Short Term Training Programme On Recent Advancements in Product Innovations and Design (RAPID-2014) (Co-sponsored by TEQIP Phase II) during 17-21 February 2014, as **Coordinator** 11. Organized 1st International Conference on "Mechanical Engineering: Emerging Trends for Sustainability" during January 29-31, 2014. **jt. Organizing Secretary**. 12. Organized One Day National Workshop on Smart Cities-Their influence on Rural Development (Co-sponsored by TEQIP Phase II)) (13th October 2016, as **Coordinator** 13. Organized National Symposium on “Recent Developments in Industrial Maintenance Management” at Synergy Institute of Engineering and Technology, as Convener. On 22nd April 2006. Sponsored by CSIR and ISTE, **Convener** | |

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| **Any other information** |  | [Google Scholar](http://scholar.google.co.in/citations?user=YY4YnCUAAAAJ&hl=en), [ScopusAuthor](http://www.scopus.com/authid/detail.url?authorId=30967641700),[ResearcherID](http://www.researcherid.com/Workspace.action),[RresearchGate](https://www.researchgate.net/profile/Dr_Mohan_Pradhan2),[Sites](https://sites.google.com/site/drmkpradhan/),[Google site](https://orcid.org/my-orcid?lang=en), **Other IDs** [Scopus Author ID: 30967641700](http://www.scopus.com/inward/authorDetails.url?authorID=30967641700&partnerID=MN8TOARS), [ResearcherID: K-8680-2013](http://www.researcherid.com/rid/K-8680-2013), [Scopus Author ID: 57194244850](http://www.scopus.com/inward/authorDetails.url?authorID=57194244850&partnerID=MN8TOARS) |