



**Kamran Rasheed, M.Tech.**  
**Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering,**  
**Integral University, Lucknow**  
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[Google Scholar Citation](#) | [ORCID](#) | [Web Of Science](#) |

## PROFILE

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- **Mr Kamran Rasheed** has more than 15 years of teaching and industry experience.
- He has been serving as an Assistant Professor in the Department of Mechanical Engineering since August 2012. He
- He is currently pursuing his PhD from Integral University, Lucknow.
- He holds an M.Tech in Computer-Aided Design from Harcourt Butler Technological Institute, Kanpur and a B.Tech in Mechanical Engineering from Uttar Pradesh Technical University, Lucknow.
- His research focuses on micro-scale fluid dynamics and thermal management systems within the field of mechanical engineering.
- His research interests include Advancements in MEMS/Microfluidics, Design and development of efficient micromixers, Analysis of innovative micromixers, Heat management of electronic components and Computational analysis of microchannel heat sinks.
- Mr. Rasheed emphasizes the use of computational fluid dynamics (CFD) tools and simulation software to model and optimize microscale systems.
- His work aims to develop innovative, sustainable, and efficient engineering solutions.
- He has authored over 8 articles published in peer-reviewed journals and conferences.

### RESEARCH INTEREST:

- MEMS/Microfluidics
- Design and development of efficient micromixers
- Analysis of Innovative Micromixers
- Heat management of electronic components
- Computational analysis of Microchannel heat sink.

### SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Number of publications in SCI indexed journals:02
- Number of publications in Non-Sci/Scopus but Peer Reviewed:05
- Book Chapters:01
- Presentation in National conferences:01
- Citations:32
- h index:03
- i10 index:02

## **COURSE TAUGHT:**

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- Engineering Product Design
- Manufacturing Science 1
- Strength of Material
- Machine Design
- Computer-Aided Design

## **ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY**

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- Departmental Admission Coordinator
- Member of NAAC Criteria -5
- Member of the departmental timetable team
- Departmental Activity Coordinator.
- An active member of the departmental continuous assessment test conduction team.
- Undergraduate Final Year Project Coordinator.
- Lab in charge of departmental Computer-aided design lab

## **STUDENTS SUPERVISION**

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- M.Tech: 03
- B.Tech: 07 groups

## **PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS**

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- “Parametric study on the influence of varying angled inlet channels on mixing performance in simple T micromixers and vortex T micromixers across a wide range of Reynolds numbers” *Microfluidics and Nanofluidics*, 2024. (**WoS, I.F:2.4**)
- “Performance analysis of microchannel heat sink with ribbed pinfins” *International Journal of Heat*. (**WoS, I.F:2.6**)

## **PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS**

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- “Truck Chassis Analysis using Finite Element Method for Steel and Carbon Fiber Components” in *International Research Journal of Engineering and Technology (IRJET)*, Volume: 10 Issue: 06 | Jun 2023.
- Study and empirical modelling related welding parameters and tensile strength of hot air welded PVC plastic, *International Journal of innovative science, engineering and Technology*, Volume 2, Issue 2 February 2015, ISSN 2348-7968.
- A review on different optimization techniques used to optimize the process parameters of Resistance spot welding, *International Journal of engineering technology, management and applied sciences*, October 2014, volume 2, issue 5, ISSN 2349- 4476.
- "Communication Skills for Managers" in the *International Journal of Management, IT and Engineering*, Volume 6, Issue 4, April 2016.
- “Effect on Mechanical Properties of Aluminium Alloy Composites on Adding Ash as Reinforcement Material” *Journal of Metals, Materials and Minerals*, Vol.25 No.2 pp.1-7, 2015.

## BOOK CHAPTERS

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- **“Numerical Analysis on the Effect of Constriction on the Mixing of Fluids in Serpentine Microchannel”**. Publisher: Springer Nature Singapore Pte Ltd., ISBN 978-981-99-7212-8, ISBN 978-981-99-7213-5 (eBook), <https://doi.org/10.1007/978-981-99-7213-5>.
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