



Dr. Pankaj Kumar Gupta
Associate Professor

School : **Engineering & Technology**
Department : **Mechanical Engineering**
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Personal Webpage Link : **No**

- Qualifications** : B.E. (Mechanical Engineering)
M.S.(Research)
Ph.D. (Applied Mechanics)
- Area of Interest/Specialization** : Computational Fluid Dynamics
Fluid & Thermal Sciences
Finite Element Analysis
Two-phase Flows
- Experience** : Teaching - 16 years
Industry - 1.25 years
Total - 20 years
- Awards and Honors** : Awarded High Value Research Assistantship during PhD
Awarded GATE Scholarship for Masters
- Research Projects** : Two (Funded by TEQIP-III, CSVTU and JNTUH)
- International Collaboration** : Indian Host/Supervisor under ASEAN India Research Training Fellowship for Two Faculty members from ASEAN Country
- Best Peer Reviewed Publication** :
1. Sambhare, R., Dewangan, S.K., **Gupta, P.K.**, Joshi, P., **2021**, "Exergy and thermo-economic analyses of various Tubular solar still configurations for improved performance", *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* DOI: **10.1080/15567036.2021.18**
 2. Rathore, R.K., **Gupta, P.K.**, Niranjana Kumar, **2021**, "Numerical Investigation of Zinc Tailings Slurry Flow Field in a Horizontal Pipeline," *Materials Today: Proceedings*, doi.org/10.1016/j.matpr.2020.11.541
 3. **Gupta, P.K.**, Nyein Aye San, Bhramara, P., **2021**, "Numerical Prediction of Near-Wall Flow Field of Dense Slurry Flow in Pipe Bends," *Materials Today: Proceedings*, doi.org/10.1016/j.matpr.2020.12.371
 4. **Gupta, P.K.**, Misal, A., Agrawal, S., **2021**, "Development of Low Cost Reflective Panel Solar Cooker," *Materials Today: Proceedings*, doi.org/10.1016/j.matpr.2020.12.004
 5. **Gupta, P.K.**, **2018**, "Numerical insight into multisize particulate flow field through rotating channel," *Progress in Computational Fluid Dynamics*, Vol. 18, No. 5, pp. 277-288.

6. **Gupta, P.K., 2017**, "Role of Centrifugal Force on Solid-Liquid Two-Phase Flow through Rotating Channel," *Progress in Computational Fluid Dynamics*, Vol. 17, Issue 5, pp. 313-325.
7. **Gupta, P.K.** and Patel, R.N., **2017** "A teaching-learning tool for elementary psychrometric processes on psychrometric chart using MATLAB," *Computer Applications in Engineering Education*, Vol. 25, No. 3, pp. 458-467.
8. **Gupta, P.K.** and Pagalthivarthi, K.V., 2007, "Application of MultiFrontal and GMRES Solvers in Multi-size Particulate Flow in Rotating Channels," *Progress in Computational Fluid Dynamics - an International Journal* , Vol. 7, No. 5, pp. 323 – 336.
9. **Gupta, P.K.** and Pagalthivarthi, K.V., 2007, "Finite Element Modelling and Validation of Multi-size Particulate Flow through Rotating Channel," *Progress in Computational Fluid Dynamics*, Vol. 7, No. 5, pp. 293-306.
10. Pagalthivarthi, K.V. and **Gupta, P.K.**, 2004, "Simulation of Developing Flow Through Rotating Channel Using Q_1Q_0 Elements," *Progress in Computational Fluid Dynamics - an International Journal*, Vol. 4, No.6, pp. 285-298.

Recent Books/Book Chapters/Monographs etc.:

NIL

Research Supervision

: Guiding FOUR Ph.D. scholars
 One is registered with IIT-ISM Dhanbad
 One is registered at GGV Bilaspur
 Two are registered with NIT Raipur

Administrative Responsibilities

: 1. Member, University CSR Committee, GGV
 2. Member, CRF committee, GGV
 3. Member, NEP Committee, GGV
 4. Member, University Discipline Committee
 : 5. Coordinator, AICTE360 Feedback, SoS E&T
 6. Member, School Board, SoS E&T
 7. Coordinator, School NBA committee, SoS E&T

Additional Information

: 1. Coordinator, ATAL FDP 2020 (sponsored by AICTE)
 2. Coordinator, ATAL FDP 2021 (sponsored by AICTE)
 3. Member of ASME, IE(I), ASTFE
 4. Reviewer in reputed Journals