

## Faculty Profile

Name : SACHIN DHULL  
Designation : Assistant Professor  
Qualifications : Ph.D. (DTU), M. Tech (YMCA),  
B. Tech (KU)  
Phone : 8826186685  
Email : sachindhull@msit.in  
Area of Interest/Specialization: Advanced Manufacturing Processes,  
Modeling, simulation and optimization of the process  
Experience : 7 years (4 years teaching + 3 years research)



### Key Publications

1. Sachin Dhull, R.S. Walia, Q. Murtaza and M.S. Niranjana. Experimental, Computational and Mathematical Analysis of Hybrid Abrasive Flow Machining Process, *International Journal of Precision Engineering and Manufacturing*. Springer (SCI) I.F. 2.2.
2. Sachin Dhull, R.S. Walia, Q. Murtaza and M.S. Niranjana. Electrochemo-magneto abrasive flow machine setup fabrication and experimental investigation of the process alongwith mathematical modelling and optimization. *Independent Journal of Management & Production*. V.10,n.8, ISSN: 2236-269X, DOI: 10.14807/ijmp.v10i8.1045. (ESCI)
3. Sachin Dhull, R.S. Walia, Q. Murtaza and M.S. Niranjana. Development of Different Polymer Media and Experimental Investigation of Abrasive Flow Machining Process *International Journal of Engineering Research and Technology*. 2018; 11 (7): 1015-1024. (Scopus)

### Papers presented in Conferences

1. Sachin Dhull, RS Mishra, RS Walia, Qasim Murtaza, MS Niranjana. Innovations in different abrasive flow machining processes. *International Conference on mechatronics and artificial intelligence 2021. Journal of physics*. (Scopus)
2. Study of CNT particle based abrasive media used for finishing workpiece by abrasive flow machining, International Conference on Processing and Fabrication of Advanced Materials ICPFAM (IIT Roorkee, Dec 2014) (Scopus)
3. Synthesis CNTs particle based abrasive media for abrasive flow machining process, National Conference on Processing and Characterization of Materials NCPCM (NIT Rourkela, Dec 2015) IOP Science (Scopus)

4. Hybrid abrasive flow machining for nano- finishing: A review, International Conferenece on Advancements in Aeromechanical Materials for Manufacturing ICAAMM (Hyderabad, 2016) Elsevier: Materials Today Proceedings (**Scopus**)

#### Patent/Copyright

1. System for Cash Depositing and Dispensing with Auto Sanitization Functionality Based on the Internet of Things. Indian Patent (published).

#### Book Chapter/Books published

1. Sachin Dhull, Qasim Murtaza, R. S. Walia, M. S. Niranjana and Saloni Vats. Abrasive Flow Machining Process Hybridization with Other Non-Traditional Machining Processes: A Review Springer Nature Singapore Pte Ltd. 2020 *Proceedings of International Conference in Mechanical and Energy Technology, Smart Innovation, Systems and Technologies* 174, [https://doi.org/10.1007/978-981-15-2647-3\\_10](https://doi.org/10.1007/978-981-15-2647-3_10), pp101-110 (**Scopus**)
2. B Singh, S Dhull, Modelling of Slag Produced in Submerged Arc Welding, *Advances in Electromechanical Technologies*, 137-143 (**Scopus**)

#### Other Contributions

- Supervised one M. Tech student
- 7 times GATE exam qualified
- Attended/ organized 8 faculty development programs (FDP)