


Title	Dr.	First Name	Amit	Last Name	Kumar	
Designation	Assistant professor					
Dept. Name	Mechanical Engineering					
Address:	At + Department of Mechanical Engineering G. B. Pant Institute of Engineering and Technology Pauri 246194, Uttarakhand, India					
Phone No.	9801223237, 8266936058					
Email	1. amitkumar158@gmail.com		2. amit.2015dr111@mece.ism.ac.in			
Web Page (if any)						
Subjects Taught	Basic Mechanical Engineering Machine Tool Design Manufacturing Science II Workshop Practice Metrology and Inspection					
Areas of Interest/Specialization	EDM, Micro-EDM, Advanced Machining Process, Additive Manufacturing Process, and Welding Technology.					
Experience (in years)	Total	4				
	Industry	NIL				
	Teaching	4				
	Research	6				
Educational Qualifications	UG	B.Tech (UTU Dehradun)				
	PG	M.Tech (GBPUAT Pantnagar)				
	Doctorate	PhD (IIT ISM Dhanbad)				
	Any other					
Research Publications in Journals	<p>1. Kumar A, Mandal A, Dixit AR, Das AK, Kumar S, Ranjan R. Comparison in the performance of EDM and NPMEDM using Al<sub>2</sub>O<sub>3</sub> nanopowder as an impurity in DI water dielectric. Int J Adv Manuf Technol 100(5-8), 1327-1339. (SCI; IF 2.601)</p> <p>2. Kumar A, Mandal A, Dixit AR, Das AK. Performance evaluation of Al<sub>2</sub>O<sub>3</sub> nano powder mixed dielectric for electric discharge machining of Inconel 825. Mater Manuf Process 2018;33:986–95. (SCI; IF 3.35)</p> <p>3. Kumar, A., Mandal, A., Dixit, A. R., &amp; Mandal, D. K. (2018). Quantitative analysis of bubble size and electrodes gap at different dielectric conditions in powder mixed EDM process The</p>					

- International Journal of Advanced Manufacturing Technology, (2020) 107:3065–3075 (SCI IF-2.601)
4. Kumar A, Kumar S, Mandal A, Rai Dixit A. Investigation of powder mixed EDM process parameters for machining Inconel alloy using response surface methodology. Mater Today Proc 2018;5:6183–8. doi:10.1016/j.matPR.2017.12.225. (SCOPUS INDEXED)
  5. Kumar V, Kumar A, Kumar S, Singh NK. Comparative study of powder mixed EDM and conventional EDM using response surface methodology. Mater Today Proc 2018;5:18089–94. doi:10.1016/j.matPR.2018.06.143. (SCOPUS INDEXED)
  6. Kumar S, Kumar A, Kumar V, Singh NK. Study of machining of inconel 825 super alloy using powder mixed EDM Process. Mater Today Proc 2018;5:18129–34. doi:10.1016/j.matPR.2018.06.148. (SCOPUS INDEXED)
  7. kumar Singh, R., Sharma, A. K., Mandal, V., Gaurav, K., Nag, A., Kumar, A., ... & Das, A. K. (2018). Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation. Materials Today: Proceedings, 5(11), 24578-24586. (SCOPUS INDEXED)
  8. Singh RK, Sharma AK, Bishwajeet, Mandal V, Gaurav K, Nag A, Kumar A, et al. Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation. Mater Today Proc 2018;5:24578–86. doi:10.1016/j.matPR.2018.10.255. (SCOPUS INDEXED)
  9. Roy, B. K., Kumar, A., Sahu, D. R., & Mandal, A. (2020). Wire electrical discharge machining characteristics of nitinol-60 shape memory alloy. Materials Today: Proceedings, 22, 2860-2869. (SCOPUS INDEXED)
  10. Kumar, A., Chauhan, V., & Bist, A. S. (2013). Role of artificial neural network in welding technology: a survey. International Journal of Computer Applications, 975, 8887.
  11. Amit Kumar, Dr.R.S.Jadoun, Ankur Singh Bist “Optimization of MIG welding Parameters using Artificial Neural Network (ANN) and Genetic Algorithm” International Journal of Engineering Sciences and Research Technology ISSN:2277- 9655
  12. Amit Kumar Gautam, Ravi kumar, Amit Kumar “Study of Peak Temperature in Friction Stir Welded T- Joint for AA6061 using Altair Hyper Weld” International Journal of Engineering Research & Technology (IJERT) Vol. 4 Issue 04, April-2015 ISSN: 2278-0181
  13. Pankaj Negi, Dr. Satyendra Singh, Amit Kumar “Aerodynamic Performance Enhancement of HAWT (Horizontal Axis Wind Turbine) Blade by Passive Flow Separation Control Technique: A Review” International Journal of Engineering Sciences & Research Technology 4(5): May, 2015 ISSN: 2277-9655
  14. A. Kumar, S. Kumar, A. Mandal, A. Rai Dixit, A.K. Das, R.K. Singh “A STUDY ON THE PERFORMANCE OF NANOPOWDER MIXED EDM PROCESS” (2017)-502- 505
  15. Ravi Kumar\*, Somnath Chattopadhyaya, Aniruddha Ghosh, Ratnesh Kumar and Amit Kumar “FRICTION STIR WELDING OF

	BMG'S: A REVIEW" 7th International Scientific and Expert Conference TEAM 2015		
Papers Published in Conference Proceedings	<p>1. Amit Kumar, Amitava Mandal, Amit Rai Dixit and Rachit Ranjan "Comparison of Surface Roughness and Material Removal Rate in Die Sink EDM using Deionized Water and powder Mixed EDM as a Dielectric Medium" Proceedings of 6th International &amp; 27Th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)</p> <p>2. Amit kumar1 , Saroj kumaR1, Amitava Mandal1, Amit Rai Dixit1, Alok Kumar DaS1, Rabesh kumaR1 "A Study on the Performance of Nano Powder mixed EDM Process" INCOM18: Proceedings of the 1st International Conference on Mechanical Engineering</p> <p>3. Vikash Kumar, Ganesh Khandoori, Amit Kumar "ROLE OF TAGUCHI DESIGN OF EXPERIMENT IN OPTIMIZATION OF WELDING PROCESS PARAMETERS FOR DIFFERENT MATERIALS – A REVIEW" International Journal of Advanced Technology &amp; Engineering Research (IJATER) 1st International Conference on Research in Science, Engineering &amp; Management (IOCRSEM 2014)</p>		
Books Authored/Book Volume Chapters	Sahu, D. R., Kumar, A., Roy, B. K., & Mandal, A. (2019). Parametric Investigation into Alumina Nanopowder Mixed EDM of Inconel 825 Alloy Using RSM. In Advances in Industrial and Production Engineering (pp. 175-184). Springer, Singapore.		
No. of Conferences	National	Attended	Organized
	International	3	
Research Guidance	Awarded	PG	Doctorate
		2	NIL
	Undergoing		
Research Projects	Completed		
	Undergoing		
Awards & Distinctions			
Administrative Assignments Handled			
Association with Professional Bodies	Reviewer, Journal of Manufacturing Processes, Publisher Elsevier Reviewer, Journal of Cleaner Production, Publisher Elsevier Reviewer, Applied Surface Science, Publisher Elsevier		
Any other Achievements			

