

## Maharaja Agrasen Institute of Technology, Delhi Department of Mechanical and Automation Engineering

Department of Mechanical & Automation Engineering and Department of Mechanical Engineering, Maharaja Agrasen Institute of Technology organized an online webinar on the topic 'Experimental investigations on mechanical behaviour of friction stir welded aluminum based composites' on 29<sup>th</sup> January 2022. The event was started with the welcome address of Prof. Neelam Sharma, Director, MAIT who enlightened us with her inspirational and encouraging words. She emphasized the significance of research for the benefit of the students and the faculty.

The main theme of the event was based on the research work carried out by Dr. Narinder kaushik during his PhD. Dr. Narinder kaushik is working as an Assistant Professor in the Department of Mechanical and Automation Engineering (MAE) and Mechanical Engineering (ME) at Maharaja Agrasen Institute of Technology, New Delhi. Dr Narinder kaushik is awarded with the Ph.D. degree from NIT Kurukshetra in the year 2019. He has done his M.Tech in Mechanical Engineering in the year 2009 from NIT Kurukshetra. Dr. Narinder kaushik has been involved in research on the composite materials characterization, wear analysis and FSW of AMC's. He has authored many research papers in International Journals and Conferences of repute.

Dr. Narinder kaushik presented a very informative talk on 'Experimental investigations on mechanical behaviour of friction stir welded aluminum based composites '. The lecture focuses on the adoption of Friction Stir Welding (FSW), a green welding technology, for the welding of aluminum matrix composites. The talk started with the introduction of composite materials and introduction of FSW process. Further, the principle of FSW was very well explained along with the supporting literature. Dr. Narinder kaushik listed the various types of equipment utilized for achieving the research objectives. The speaker briefly explained the influence of microstructural features obtained after FSW on the mechanical and tribological properties of the FS welded joints. The lecture concluded with the future scope of the research work.

Finally, the webinar was ended with a Q & A session. More than 100 participants attended for the same and the event was a grand success.



