

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 'Tribological behaviours of magnesium alloy sector shape pad with surface modification' on 08th 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. Sumit Joshi during his PhD. Dr. Sumit Joshi 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 Sumit is awarded with the Ph.D. degree from Delhi Technological University (DTU), New Delhi in the year 2021. He has done his M.Tech in Production Engineering in the year 2016 from DTU only. Dr. Sumit has been involved in research on materials characterization, surface engineering and tribology of Machine Elements. He has authored many research papers in International Journals and Conferences of repute.

Dr. Sumit Joshi presented a very informative talk on 'Tribological behaviours of magnesium alloy sector shape pad with surface modification'. The lecture focuses on the adoption of Friction Stir Processing (FSP), a surface modification technique, for enhancing the properties of Magnesium alloys. The talk started with the introduction of various types of magnesium alloys and their applications. Further, the principle of FSP was very well explained along with the supporting literature. Dr. Sumit listed the various types of equipment utilized for achieving the research objectives. The speaker briefly explained the influence of microstructural features obtained after FSP on the mechanical and tribological properties of magnesium alloys. The FSP produced magnesium alloys was further explored for the thrust bearing applications. The lecture concluded with the future scope of the research work. The speaker stressed the studies of magnesium alloys at elevated temperature applications.

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.

