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IEST Shibpur

Workshop on Mg-based Alloys and its Applications as Bio- implant

11th - 13th December 2025

**Aerospace Engineering and Applied Mechanics
Indian Institute of Engineering Science and Technology,
Shibpur
&
Department of Metallurgical and Materials Engineering
Indian Institute of Technology Kharagpur**

In Association with



Monash University



IIT Kharagpur

Venue: Indian Institute of Engineering Science and Technology, Shibpur

Link for Registration:

<https://forms.gle/p2JTAwBeaE26A9ME6>



About the Symposium

Lightweight metals and alloys, especially magnesium-based systems, are emerging as key materials for next-generation biomedical implants. Their low density, favorable mechanical compatibility with human bone, and natural biodegradability make them strong candidates for restorable implant solutions that minimize long-term complications. However, the major challenges associated with its wide-ranging applicability are its low strength, poor wear resistance and poor creep resistance. The workshop aims to disseminate knowledge on Mg-based alloys used for implant applications and the challenges ahead. In addition, a hands-on training program will also be organized to know the performance and testing of the bio-implant coupons for research purposes.

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