

Dr. Fayaz Ahmad Mir

Assistant Professor

CONTACT

Phone: +91-9906842628

Address: Srinagar, J&K-190015

Email: fayaz.ahmad@iust.ac.in

Google Profile: <https://scholar.google.com/citations?user=cY1sOfEAAAAAJ&hl=en>

SUMMARY

Presently working as an Assistant Professor in the Department of Mechanical Engineering at the Islamic University of Science and Technology (IUST), Kashmir. I hold a Ph.D. in Mechanical Engineering with specialization in advanced manufacturing and materials development, with research focused on dissimilar material joining, particularly age-hardened 2024-T3 aluminium alloy and AISI 304 stainless steel. My expertise includes friction stir welding (FSW), linear friction welding (LFW), friction stir processing (FSP), metal matrix composites (MMCs), and processing of dissimilar materials, along with composite development and mechanical, corrosion, and wear characterization. I have also worked as a Research Assistant on a JKST&IC-funded project on development of lightweight materials for snow-clearance applications, involving material fabrication, testing, and prototype development. My research interests lie in advanced materials and manufacturing with a focus on practical, industry-oriented solutions

PROFESSIONAL EXPERIENCE

Assistant Professor

|| March 2026–Present ||

Islamic University of Science and Technology

- Teaching undergraduate (B.Tech) courses in Mechanical Engineering □
- Preparing and delivering lectures, tutorials. □
- Supervising laboratory sessions and ensuring effective practical learning
- Contributing to departmental administration and coordination tasks
- Sports Coordinator
- Co-Coordinator Student Club

Research Assistant

|| May 2025 – March 2026 ||

Islamic University of Science and Technology

- Developed lightweight materials and fabricated a compact snow-clearance prototype through hands-on design, testing, and iteration. □
- Coordinated research tasks, managed lab activities, and supported project execution across multidisciplinary teams
- Prepared technical documentation, presentations, and project reports, including support for proposals and deliverables.

Assistant Professor **|| April 2018 – June 2019 ||**

University of Kashmir–North Campus

- Designed and delivered undergraduate engineering courses with focus on Engg graphics and material science □
- Conducted departmental seminars and workshops on advanced manufacturing technologies

Assistant Professor **|| Oct.2017 – March 2018 ||**

Islamic University of Science and Technology

- Taught courses on manufacturing engineering, and material characterization
- Organized academic events, including guest lectures □
- Contributed to departmental accreditation processes, ensuring compliance with educational standards and quality

EDUCATION

Ph.D Production Engineering **|| Dec. 2019 – May 2025 ||**

National Institute of Technology Srinagar

Thesis: Friction based solid state welding of dissimilar materials

WORKSHOPS

Processing of Novel Materials | 2022

IIT (BHU), Varanas

Sustainability Engineering | 2022

IIT Jammu

Additive Manufacturing | 2021

NIT Srinagar

EV, solar & hydrogen fuels | 2020

NIT Srinagar

MEMBERSHIP

- Tribology Society of India
 - INSc–India
 - Institution of Engineers (IEI)–India
-

PUBLICATIONS

- Published 20+ research articles in reputed SCOPUS/SCI-indexed peer-reviewed journals (till May 2026).

Google Scholar :

<https://scholar.google.com/citations?user=cYIsOfEAAAAJ&hl=en>