Faculty Profile:

Name: Dr. Rahul Biradar

Designation: Assistant Professor

Experience:

- Currently working as Assistant Professor in RNS Institute of Technology, Bengaluru (08 July 2026 to till date)
- Worked as Research Assistant in REVA University, Bengaluru (20 November 2021 to 21 November 2025)
- Worked as Assistant Professor in CMR Engineering College, Hyderabad (09 January 2017 to 23 October 2021)

Qualification:

- **B.E.-** Bhemanna Khandre Institute of Technology, Bhalki, VTU, Belagavi, Karnataka.
- **M-Tech** - Nagarjuna College of Engineering and Technology, Bengaluru, VTU, Belagavi, Karnataka.
- **Ph. D -** REVA University, Bengaluru, Karnataka.

Specializations (Academic):

- Material Science and Engineering
- Machine Design

Specializations (Research):

Metal Matrix Composites (MMCs)

- AA7075/GNPs composites using sir casting process.

Friction Stir Welding (FSW) Technique

- The composite plates were welded using friction stir welding (FSW) Technique**.**

Mechanical and Microstructural Characteristics

- Investigated the effect of process parameters like, tool rotational speed, tool traverse speed and tool plunge depth on mechanical (Tensile and Microhardness) properties and microstructural (OM, SEM, EBSD, and TEM) characteristics of FSW joints.

Tribology Analysis

- Dry sliding wear behaviour of AA7075/GNPs composites and welded joints at room temperature**.**

Machine Learning (ML) Technique

- Predictive modeling of ultimate tensile strength and microhardness of AA7075/GNPs composites joints at various machine learning (ML) technique.

Publications:

- https://scholar.google.com/citations?user=zGBfx0AAAAAJ&hl=en&oi=ao
- https://orcid.org/0000-0002-6128-9165
- https://www.scopus.com/authid/detail.uri?authorId=57937174700

Awards Received

- Received "**Best Paper Award"** in **International Conference** on Sustainable Materials and Recent Trends in Mechanical Engineering **(SMARTME-2024)** organized by School of Mechanical Engineering, **REVA University**, Bengaluru from 12th to 13th July 2024.
- **Research Proposal** got shortlisted in **INUP - i2i** programme held at **CeNSE, Indian Institute of Science**, Bengaluru during 14th to 24th February 2023.