

Faculty Profile

Name: **Dr. Srinivasa Rao Tadivaka**
Designation: Associate Professor
Teaching Areas: Engineering Materials and Metallurgy, Welding Processes, Operations Research, Production and Operations Management, and Management Principles
Research Interests: Friction Stir Welding, Characterization of Welds, Mechanical and Corrosion properties of welded joints, and Selective Laser Melting of IN 718 and Ti-6Al-4V
Education: Ph.D from Anna University, Chennai in 2016
M.E from Anna University, Chennai in 2004
B.Tech from JNTU, Hyderabad in 2001



Professional Experience (Total: 15 Years)

1. Jan 2019-till date: Associate Professor, Dept. of Mech. Engg., FST, IFHE, Hyderabad
2. Jan 2018-Jan 2019: Post-doctoral researcher, Department of MME, IIT Madras, Chennai
3. Jun 2016-Jan 2018: Professor, KITS, Guntur
4. Nov 2015-May 2016: Professor, ACE Engineering College, Ghatkesar, Hyderabad
5. Feb 2011-Oct 2015: Asst. Professor/Sr. Asst. Professor, Tagore Engg. College, Chennai
6. Jun 2004-Feb 2011: Lecturer-Assoc. Prof., TEC, CRRCOE, SMCE, and UCET, Guntur

Research / Selected Publications:

1. **T. Srinivasa Rao**, G. Madhusudhan Reddy, G. Srinivasa Rao and S. R. Koteswara Rao, "Studies on salt fog corrosion behavior of friction stir welded AA7075-T651 aluminum alloy", **International Journal of Materials Research**, Vol. 105, No. 4, 2014, pp. 375-385. (Impact Factor: 0.653)
2. **T. Srinivasa Rao**, G. Madhusudhan Reddy and S. R. Koteswara Rao, "Microstructure and mechanical properties of friction stir welded AA7075-T651 aluminum alloy thick plates", **Transactions of Nonferrous Metals Society of China**, Vol. 25, No. 6, 2015, pp. 1770-1778. (Impact Factor: 2.615)
3. **T. Srinivasa Rao**, G. Madhusudhan Reddy and S. R. Koteswara Rao, "Studies on variations in microstructure and hardness of AA7075-T651 aluminum alloy friction stir welds", **Metallurgia Italiana**, Vol. 108, No. 1, 2016, pp. 29-35. (Impact Factor: 0.546)
4. K. Thamilarasan, S. Rajendra Boopathy, G. Madhusudhan Reddy, **T. Srinivasa Rao** and S. R. Koteswara Rao, "Salt fog corrosion behaviour of friction stir welded AA2014-T651 aluminum alloy", **Materials Testing**, Vol. 58, No. 11-12, 2016, pp. 932-938. (Impact Factor: 0.799)
5. **T. Srinivasa Rao**, G. Madhusudhan Reddy and S. R. Koteswara Rao, "Investigation on variations in hardness and microstructure of in-process cooled 7075 aluminum alloy friction stir welds", **Materials Testing**, Vol. 59, No. 2, 2017, pp. 155-160. (Impact Factor: 0.799)
6. **T. Srinivasa Rao**, S. R. Koteswara Rao, and G. Madhusudhan Reddy, "Friction stir welding of thick section Al-Zn-Mg-Cu aluminum alloy", **Materials Science and Engineering Technology**, Vol. 49, No. 7, 2018, pp. 851-858. (Impact Factor: 0.744)
7. **T. Srinivasa Rao**, S. R. Koteswara Rao, and G. Madhusudhan Reddy, "Microstructure and fracturing behavior of AA7075-T651 aluminum alloy cooled during friction stir welding", **Metal Science and Heat Treatment**, Vol. 61, No. 5-6, 2019, pp. 379-386. (Impact Factor: 0.420)
8. Neelamegam Vasudevan, Govindasamy Bhavani Bhaskar, **Tadivaka Srinivasa Rao** and Muthukrishnan Mohandass, "Mechanical properties of cryogenically treated AA5083 friction stir welds", **Materials Testing**, Vol. 61, No. 12, 2019, pp. 1129-1134. (Impact Factor: 0.799)
9. Veerababu Gollapalli, **Srinivasa Rao Tadivaka**, Chenna Rao Borra, Suguna Soumya Varanasi, Phani S. Karamched, and M.B.Venkata Rao, "Investigation on stabilization of ladle furnace slag with different additives", **Journal of Sustainable Metallurgy**, Vol. 6, No. 1, 2020, pp. 121-131. (Impact Factor: 2.109)
10. Neelamegam Vasudevan, Govindasamy Bhavani Bhaskar, **Tadivaka Srinivasa Rao** and Muthukrishnan Mohandass, "Effect of cryogenic treatment on corrosion behavior of friction stir welded AA5083 aluminum alloy", **Mechanics**. Accepted for publication and is in press. (Impact Factor: 0.458)