

Faculty Profile

Name: **Dr. Syed Quadir Moinuddin**
Designation: Assistant Professor
Teaching Areas: Manufacturing Science- I & II, CAD/CAM, Material Science, Additive Manufacturing, Advance Material Joining Process, Workshop practice.
Research Interests: Advanced Manufacturing, Advanced Materials Joining Methods, Metal Additive Manufacturing, Arc Physics, Welding Metallurgy.
Education: Ph.D., Mechanical and Aerospace Engineering, IITH, Hyderabad, 2018.
M.Tech, Integrated Design and Manufacturing, Amrita Vishwa Vidyapeetham, Coimbatore, 2011
B.E., Mechanical Engineering, Crescent Engineering College, Anna University, Chennai, 2009



Professional Experience (Total: 8 Years Inclusive of Research, Teaching and Industrial)

1. Dec 2018 – present: Assistant Professor, IFHE, ICFAI University, Hyderabad, Telangana.
2. Sept 2018 – Nov 2018: Project Assistant, IIT Hyderabad, Telangana.
3. July 2015 – Aug 2015: Research Intern, JWRI, Osaka University, Japan.
4. Jan 2012 – April 2012: Senior Research Fellow, IIT Kharagpur, West Bengal.

Research / Selected Publications:

1. **Moinuddin, S.Q.**, and Sharma, A. (2018): "Multiple-wire welding in GMAW and SAW", Advances in Welding Technologies for Process Development, CRC press, Taylor and Francis publications.
2. **Moinuddin, S.Q.**, and Sharma, A. (2015): "Arc stability and its impact on weld properties and microstructure in anti-phase synchronized twin-wire Gas Metal Arc welding", Material and Design, 67, 293-302. (<https://doi.org/10.1016/j.matdes.2014.11.052>).
3. **Moinuddin, S.Q.**, Kapil, A., Kohama, K., Sharma, A., Ito, K. and Tanaka, M. (2016): "On process-structure-property interconnection in anti-phase synchronized twin-wire GMAW of low carbon steel", Science and Technology of Welding and Joining, 2015, 21(6), 452-459. (<https://doi.org/10.1080/13621718.2015.1124960>).
4. **Moinuddin, S.Q.**, and Sharma, A. (2017): "Arc behavior study using welding current module and its impact on residual stresses and weld bead in ant-phase synchronized twin-wire gas metal arc welding process, Indian Welding Journal.
5. Kumar, M., **Moinuddin, S.Q.**, Surya, S. and Sharma, A. (2020): "Discrete wavelet analysis of mutually interfering co-existing welding signals in twin-wire robotic welding" International Journal of Manufacturing Processes.
6. **Moinuddin, S.Q.**, and Sharma, A. (2016): "Melting Efficiency in Anti-Phase Synchronized Twin-wire Gas Metal Arc Welding, the 10th International Conference on Trends in Welding Research and 9th Japan Welding Society (9WS), Hitotsubashi Hall, Tokyo, Japan. (ISBN:9781510844032)
7. **Moinuddin, S.Q.**, Kumar, M., Kumar, S., and Sharma, A. (2016): "Assessment of twin-wire GMAW as a candidate for large scale arc based Additive manufacturing, the 10th International Conference on Trends in Welding Research and 9th Japan Welding Society (9WS), Hitotsubashi Hall, Tokyo, Japan.
8. **Moinuddin, S.Q.**, and Sharma, A. (2017): "Arc behavior study using welding current module and its impact on residual stresses and weld bead in ant-phase synchronized twin-wire gas metal arc welding process, International Congress – 2017 (IC-2017) of International Institute of welding, Chennai Trade Centre Nandambakkam, Chennai, India.
9. **Moinuddin, S.Q.**, and Sharma, A. (2019): "Effect of Welding Speed on Arc Stability and its Impact on Structure – Property in Anti-Phase Synchronized Twin-Wire GMAW Process", The 72nd IIW Annual Assembly and International Conference, Bratislava, Slovakia.