Syed Maaz Hasan

Assistant Professor

School of Mechanical & Manufacturing Engineering

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About

Dr. Syed Maaz Hasan is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Syed Maaz Hasan has a PhD in Mechanical Engineering. Dr. Syed Maaz Hasan has published 14 research articles & conference papers having a citation count of 45, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Engineering   2011 - 2019
  College of Electrical and Mechanical Engineering , Pakistan

MS in Mechanical Engineering   2010 - 2012
  College of Electrical and Mechanical Engineering , Pakistan

BS in Mechanical Engineering   2006 - 2010
  College of Electrical and Mechanical Engineering , Pakistan

Experience

Assistant Professor   2023- Present
  School of Mechanical & Manufacturing Engineering

Assistant Professor   2015 - 2023
  HITEC University, Taxila , HITEC University, Taxila

Lecturer   2012 - 2015
  HITEC University, Taxila , HITEC University, Taxila

Jr. Lecturer   2011 - 2012
  HITEC Universty , HITEC University, Taxila

Assistant Professor   2010 - 2023
  HITEC University , HITEC University, Taxila

Lab Engineer   2010 - 2011
  HITEC Univeristy , HITEC Univeristy, Taxila

Research Articles

Performance enhancement of a shell-and-tube heat exchanger using a novel baffle design   2025

Syed Maaz Hasan Saeed Iqbal Ibrahim Khan Ali Javaid Muhammad Sajid

Case Studies in Thermal Engineering, Volume 74, Article Number 106800

Impact Factor: 6.400 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.csite.2025.106800

Condition Monitoring of Photovoltaic Panels Through Electrical Impedance Spectroscopy and Machine Learning Focusing on Temperature, Dust, and Microcracks   2025

Saeed Iqbal Syed Maaz Hasan Yasar Ayaz Emad Ud Din Adeel Waqas Ahmad Muhammad Sajid

IEEE Access , Volume:13, Pages 53039-53052

Impact Factor: 3.400 | **Quartile:** 2
DOI: https://doi.org/10.1109/access.2025.3550738

Performance evaluation and sensitivity analysis of a low- capacity single-effect LiBr-H2O absorption cooling system using energy and exergy modeling   2024

Syed Maaz Hasan Muhammad Saad Ul Haq Abdul Waheed Badar M Zahid Iqbal Qureshi Majid Ali M. Salman Siddiqi

Journal of Applied Science and Engineering, Volume 28, No 9, Page 1075-1715

Impact Factor: 1.100 | **Quartile:** 3
DOI: https://doi.org/10.6180/jase.202509_28(9).0007

Experimental Investigation of Particle Sorting in Y-Channels with Variable Bifurcation Angles for Microfluidic Applications   2024

Khola Ikram Syed Maaz Hasan Ch Abdullah Muhammad Zulfiqar Emad Ud Din Zaib Ali Muhammad Sajid

Journal of Applied Science and Engineering, Volume 28, No 8, Pages 1679-1687

Impact Factor: 1.100 | **Quartile:** 3 | **Citations:** 1
DOI: https://doi.org/10.6180/jase.202508_28(8).0006

Reduced order model of offshore wind turbine wake by proper orthogonal decomposition   2020

M. Salman Siddiqui Sidra Tul Muntaha Latif Muhammad Saeed Muhammad Rahman Abdul Waheed Badar Syed Maaz Hasan

International Journal of Heat and Fluid Flow, Volume 82, Article Number 108554

Impact Factor: 2.789 | **Quartile:** 2 | **Citations:** 26
DOI: https://doi.org/10.1016/j.ijheatfluidflow.2020.108554

Incorporation of part complexity into system scalability for flexible/reconfigurable systems   2018

Syed Maaz Hasan Aamer Ahmed Baqai Sajid Ullah Butt Muhammad Farhan Ausaf Uzair Khaleeq uz Zaman

The International Journal of Advanced Manufacturing Technology, Volume:99, Issue:9-12, Page:2959-2979

Impact Factor: 2.496 | **Quartile:** 2 | **Citations:** 4
DOI: 10.1007/s00170-018-2654-x

Product family formation based on complexity for assembly systems   2018

Syed Maaz Hasan Uzair Khaleeq uz Zaman Aamer Ahmed Baqai Sajid Ullah Butt

The International Journal of Advanced Manufacturing Technology, NULL

Impact Factor: 2.496 | **Quartile:** 2 | **Citations:** 13
DOI: DOI:https://doi.org/10.1007/s00170-017-1174-4

Framework for Part Families Associated with Setup Sequence Based Similarity in Reconfigurable Manufacturing System / **Cellular Manufacturing System**   2018

Muhammad Ali Aamer Ahmed Baqai Sajid Ullah Butt Syed Maaz Hasan

International Journal of Materials, Mechanics and Manufacturing, Volume 6 Number 1, Pages 63-68

Impact Factor: N/A
DOI: 10.18178/ijmmm.2018.6.1.348

Conference Proceedings

VIV-Based Energy Harvesting from Tandem Cylinders for Self-Sustained IoT Systems †   2024

Muhammad mahad Shah Arslan Ahmed Usman Latif Syed Maaz Hasan Emad Ud Din

10th International Symposium on Sensor Science (aisi3s2024), res.country(177,)

Citations: 1
DOI: https://doi.org/10.3390/engproc2024075040

A petri-net model for scalable systems with variable stages based on changing product demands   2018

Syed Maaz Hasan Sajid Ullah Butt Aamer Ahmed Baqai

28th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2018), res.country(233,)

Citations: N/A
DOI: 10.1016/j.promfg.2018.10.036

Optimized design of a straight blade urban roof top vertical axis wind turbine   2014

M. Salman Siddiqui Syed Maaz Hasan

2014 International Conference on Energy Systems and Policies (ICESP) 24-26 Nov. 2014, res.country(233,)

Citations: N/A
DOI: https://doi.org/10.1109/ICESP34911.2014

An approach for the selection of process plans based on part family changes   2013

Syed Maaz Hasan Aamer Ahmed Baqai

FAIM Flexible Automation and Intelligent Manufacturing Proceedings Published in Advances in Sustainable and Competitive Manufacturing Systems , res.country(183,)

Citations: N/A
DOI: https://doi.org/10.1007/978-3-319-00557-7

A Petri-Net Model for Machine Structure Configuration Approach   2012

Syed Maaz Hasan Aamer Ahmed Baqai Muhammad Nadeem Azam

ASME 2012 International Mechanical Engineering Congress and Exposition, res.country(233,)

Citations: N/A
DOI: https://doi.org/10.1115/IMECE2012-88846

An algorithm for the generation/selection of process plans based upon production rate   2011

Syed Maaz Hasan Muhammad Nadeem Azam Muhammad Salman Siddiqui Aamer Ahmed Baqai

International Conference on Advance Modeling and Simulation At: NUST, Islamabad Pakistan , res.country(177,)

Citations: N/A
DOI: Nil

Editorial Activities

Journal of Mechanical Science and Technology   2025
Reviewed Papers for Journals
Impact Factor: 1.7

PLOS ONE   2024
Reviewed Papers for Journals
Impact Factor: 6.2

N/A   2024
Reviewed Papers for Journals
Impact Factor: N/A

PLOS One   2024
Reviewed Papers for Journals
Impact Factor: 3.75

Trainings

A detail investigation using Raman Spectroscopy to obtain Quality solvent dispersion via Sonication   2024
Processing of graphene nanoplatelets (GNPs)
Partner: NESCOM
Duration: 29-Apr-2024 to 15-May-2024