



**(Dr. Mohd Faizan Hasan)**

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## PROFILE

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Dr. Mohd Faizan Hasan is currently serving as an Associate Professor in the Department of Mechanical Engineering, a position he has held since March 2023. His professional journey in academia began in 2009. Since then, he has accumulated over 15 years of experience in teaching various subjects within the B.Tech and M.Tech Mechanical Engineering programs. He has completed his Ph.D. in Mechanical Engineering from Integral University, Lucknow, in 2022, where he investigated the performance measures for the parametric optimization of Wire EDM on Die Steel D3. Prior to this, he earned his M.Tech in Production and Industrial Engineering in 2013 and B.Tech in Mechanical Engineering from the same institution in 2008. Apart from his academic and research contributions, he has delivered keynote lectures and organized various workshops and seminars in mechanical engineering, ensuring continuous professional development for himself and his peers.

### RESEARCH INTEREST:

- Wire EDM
- Hybrid EDM
- Micro tools manufacturing
- Machining

### PROFESSIONAL MEMBERSHIP:

- Solar Energy Society of India (SESI) Reg. NO. 4499

## COURSE TAUGHT:

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- Kinematics Of Machines
- Measurement & Metrology
- Industrial Engineering
- Heat And Mass Transfer
- Advanced Material Science
- Basic Mechanical Engineering
- Production Operation Management
- Automobile Engineering

## ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

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- Member of NAAC Criteria 1.
- Designed Course Structure for the newly added B.Tech Program in Mechanical Engineering with specialization in Electric Vehicles.
- Working as a PG Course coordinator
- Working as a NIRF ranking coordinator
- Automobile lab incharge

## STUDENTS SUPERVISION

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- PhD: 01 (Ongoing)
- M.Tech: 27
- B.Tech: 15 groups

## PUBLISHED/GRANT PATENTS

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- Eco friendly construction: Integrating bio design with additive manufacturing.
- Analysis and study of hydrothermal synthesis of bismuth ferrite hollow sphere with enhanced visible light photocatalytic activity using deep learning approach.
- Image processing techniques integrated with machine learning approach for analyzing and estimating soil moisture using satellite captured images.
- Deep learning based approach to predict fuel consumption and maintenance cost of heavy duty vehicles using diesel and alternative fuel.

## PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

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- An Investigation Of Wire Offset And Surface Morphology Of Die Steel D3 On Wire EDM By Using RSM-CCD.  
Production Engineering Archives, Issn: 2353-7779, Volume-27, Issue-2, June 2021
- Modeling Of Mrr And Surface Roughness Of Die Steel-D3 During Wire EDM Using RSM Technique.  
Journal Of Huazhong University Of Science And Technology, Issn: 1671-4512, Volume 50, Issue 6, July 2021

## PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

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- Predicting Fouling Progress in water cooled chillers using bidirectional LSTM neural network and synthetic data.

## PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

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- Experimental Study About Influence Of Welding Sequence And Buckling Distortion In Thin Plate Arc Welded Joints Using 2 Different Cathodes.
- Mechanical Properties Of 202 Stainless Steel Weld By Using Metal Arc Welding.
- Design and Analysis of Turbine Blades for Turbojet Engine.
- Composite Material-Based Leaf Spring Fo Vehicle: A Review.
- Mechanical Characterization Of Sisal Fiber Coarse Groundnut Shell, Glass Fibre Coarse Groundnut Shell Based Hybrid Composite.
- Fabrication And Testing Of Various Mechanical Property Of Fiber Reinforced Polymer Composite.

- Comparison Of Material Removal Rate Of Aluminium Alloy Aa6063 Using Cvd Coated Tungsten Carbide Inserts With Pvd Coated Cemented Carbide Inserts While CNC Turning.
- Nonlinear Thermal Contact Finite Element (Fe) Analysis Of Shaft And Hole Body Interface Investigation On Effect Of Cnc Parameters On Surface Roughness And Mrr On En-31 Steel Using High Speed Turning Operation.
- Optimization Of Machining Parameters In Cnc Machining Of D2 Steel Using Taguchi Method
- Strength Behaviour Assessment Of Aluminium 2024 With Silicon Carbide And Fly Ash Reinforcement Using The Rsm Approach
- An Investigation Of Wire Offset And Surface Morphology Of Die Steel D3 On Wire Edm By Using Rsm-Ccd
- Modeling Of Mrr And Surface Roughness Of Die Steel-D3 During Wire Edm Using Rsm Technique.
- Advancements In Aluminium 2024 Hybrid Composites - A Review
- Parametric Optimization Of Mig Welding Parameters Of En-31
- Modeling Of Mrr And Surface Roughness Of Die Steel-D3 During Wire Edm Using Rsm Technique.
- Advancements In Aluminium 2024 Hybrid Composites - A Review
- Parametric Optimization Of Mig Welding Parameters Of En-31
- Compressive Behaviour Of Trapezoidal Sandwich Plate Using Numerical Simulation
- A Review On Study The Methods And Application Of Mql Using Natural Oils
- Buckling Behavior Of Skew Sandwich Plate Using Numerical Simulation
- To Study The Effect Of Pouring Temperature On Mechanical Properties Of Metal Matrix Composites (Al+4cu+5sic) In Stir Casting
- Study And Analysis Of Natural Oil Based Cutting Fluids Using Minimum Quantity Lubrication System For Alloy Steel
- Optimization Of Welding Speed, Current & Voltage To Take Best Value Of Mechanical Properties Of Electric Arc Welded Specimen Of Mild Steel (C,Mn,Si) With E6013 Electrode.

## BOOK CHAPTERS

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- Research on laser beam cutting of Aluminium alloy 6061 for kerf width: An experimental approach.
  - Metal Composites using smart materials for advanced machinery.
  - Investigation of mechanical properties of neem, Indian almond hybrid Fibre- based epoxy composites
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