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Hyperlinks of ([Google Scholar Citation](#), | [Orcid](#) , 1.[scopus](#) 2.[scopus](#) , | [Web Of Science](#), | [Research gate](#),  
| [linked in](#))

## PROFILE

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### EXPERIENCE:

- Twenty 22 years of teaching experience at various positions (Department of Mechanical Engineering, Integral University erstwhile Institute of Integral Technology, Lucknow):
- Associate Professor (since 1st March 2015)
- Jr. Associate Professor (1st August 2011- 28th February 2015)
- Assistant Professor (1st July 2009 to 31st July 2011)
- Sr. Lecturer
- Lecturer (10 July 2006) Integral University Lucknow
- Lecturer (14 August 2002) UNSIET PU Jaunpur.
- 4 Years Industrial Experience

### ACADEMIC QUALIFICATIONS:

- Ph.D. Integral University, Lucknow, India. 2012
- M. Tech., Industrial system engineering KNIT, UPTU Lucknow, India
- B. Tech. Mechanical Engineering. MMTU Gorakhpur, India
- Intermediate (10+2) UP Board
- High School UP Board

### RESEARCH INTEREST:

- Production /Welding
- Computational analysis of Microchannel heatsink.
- Analysis of innovative micromixers, including simple and vortex designs, for enhanced fluid mixing

### SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Number of publications in SCI indexed journals 10
- Number of publications in SCOPUS indexed journals 12

• Number of publications in Non-Sci/Scopus but Peer Reviewed	45
• Number of publications in International Conferences	03
• Number of publications in National Conferences	11
• Book Chapters	02
• Presentation in international conferences	02
• Patent	01
• Citations	227
• H index	08
• I10 index	07
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#### **PROFESSIONAL MEMBERSHIP:**

- The Institution of Engineers M-1727575
- International Association of Engineers (IAENG) Member Updates Member No: 142129

#### **COURSE TAUGHT:**

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- Manufacturing science
- Production operation management
- Basic mechanical engineering
- Plant layout and material handling

#### **ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY:**

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- Former HOD Mechanical Department UNSIET PU Jaunpur,
- Program coordinator PG,
- DQAC chairman,
- Organizing members, and sponsorship committee, session manager of ICCRME-18,
- Head examiner
- Member of NAAC Criteria 7.
- Former Departmental Admission Committee Member
- FEISTA Member
- Former Member Departmental Examination Committee
- Former Departmental Grievance Committee
- Former Member Proctorial /Anti Ragging

#### **STUDENTS SUPERVISION:**

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- PhD: 02 (Supervised)
- PhD: 07 (Ongoing)
- M.Tech: 25
- B.Tech: 26

#### **PUBLISHED/GRANT PATENTS:**

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- Pipe Elbow for Air Conditioning Plant 404342-001 Dated 12/01/2024

#### PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

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- Parametric study on the influence of varying angled inlet channels on mixing performance in simple T micromixers and vortex T micromixers across a wide range of Reynolds numbers 2024, DOI: [10.1007/S10404-024-02746-8](https://doi.org/10.1007/S10404-024-02746-8) WOSUID: [WOS:001264787300001](https://wos.riken.go.jp/WOSUID/WOS:001264787300001)
- “Effect of cylindrical ribs location in a fan-shaped cavity on thermo-hydraulic performance of a microchannel heatsink” Journal of Thermal Analysis and Calorimetry, 2024. (WoS, I.F:4.4) DOI: [10.1007/S10973-024-13157-W](https://doi.org/10.1007/S10973-024-13157-W) WOSUID: [WOS:001207611900006](https://wos.riken.go.jp/WOSUID/WOS:001207611900006)
- Effects of cylindrical ribs arrangement in the cavity region of the microchannel heatsink with a fanshaped cavity,” Journal of Process Mechanical Engineering, 2024. (WoS, I.F: 2.4) DOI: [10.1177/09544089241231481](https://doi.org/10.1177/09544089241231481) WOSUID: [WOS:001163047700001](https://wos.riken.go.jp/WOSUID/WOS:001163047700001)
- Prediction of the Effect of Submerged Arc Welding Process Parameters on Weld Bead Width for MS1018 Steel . DOI: [10.17605/OSF.IO/Y6XP2](https://doi.org/10.17605/OSF.IO/Y6XP2) WOSUID: [DRCI:DATA2020098018666275](https://wos.riken.go.jp/WOSUID/DRCI:DATA2020098018666275)
- Process Parameter optimization of pulsed TIG welding using RSM 2019 UPB Scientific Bulletin EID: 2-s2.0-85067919555 Part of ISSN: [22863699 14542358](https://doi.org/10.22863/69914542358) WOSUID: [INSPEC:19399997](https://wos.riken.go.jp/WOSUID/INSPEC:19399997)
- Parametric optimization of TIG welding using Response Surface Methodology 2019 MATERIALS TODAY PROCEEDINGS DOI: [10.1016/J.MATPR.2019.07.179](https://doi.org/10.1016/J.MATPR.2019.07.179) WOSUID: [WOS:000499475200112](https://wos.riken.go.jp/WOSUID/WOS:000499475200112)
- Integration of RSM with Grey based Taguchi Method for optimization of pulsed TIG welding process parameters 2019, MATERIALS TODAY-PROCEEDINGS. DOI: [10.1016/J.MATPR.2019.07.508](https://doi.org/10.1016/J.MATPR.2019.07.508) WOSUID: [WOS:000499475200361](https://wos.riken.go.jp/WOSUID/WOS:000499475200361)
- Grey Based Taguchi Method for Optimization of TIG Process Parameter in Improving Tensile Strength of S30430 Stainless Steel, IOP Conference Series-Materials Science and Engineering.2018.DOI: [10.1088/1757-899X/404/1/012003](https://doi.org/10.1088/1757-899X/404/1/012003) WOSUID: [WOS:000450582600003](https://wos.riken.go.jp/WOSUID/WOS:000450582600003)
- An experimental study on the effect of increased pressure on MIG welding arc 2011 International Journal of Applied Engineering Research WOSUID: [INSPEC:12469074](https://wos.riken.go.jp/WOSUID/INSPEC:12469074)
- Parametric optimization of TIG welding to determine welding strength of S30430 stainless steel, International Journal of Mechanical and Production Engineering Research and Development, 2018. DOI: [10.24247/ijmperdjun201836](https://doi.org/10.24247/ijmperdjun201836) EID: 2-s2.0-85046648340 Part of ISSN: [22498001 22496890](https://doi.org/10.22498/00122496890)

- Experimental investigation of mechanical properties of saw weldments of is-2062 steel plates, International Journal of Mechanical and Production Engineering Research and Development, 2018, 8(4), pp. 1043–1048 DOI: [10.24247/IJMPERDAUG2018108](https://doi.org/10.24247/IJMPERDAUG2018108) EID: 2-s2.0-85063430201 Part of ISSN: [22498001 22496890](https://www.elsevier.com/issn/22498001)
- Prediction of weld bead reinforcement height for steel using submerged arc welding process parameters, International Journal of Applied Engineering Research, 2011, 6(15), pp. 1857–1871. EID: 2-s2.0-84867274891 Part of ISSN: [09734562 09739769](https://www.elsevier.com/issn/09734562)

#### PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

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- Grey Based Taguchi Method for Optimization of TIG Process Parameter in Improving Tensile Strength of S30430 Stainless Steel, IOP Conference Series-Materials Science and Engineering. ICCRME-2018
- Energy conservation BRIDGE-2015
- Pre-experimental simulation for prediction of rotational speeds for required range of temperature in friction stir welding of butt joint of aluminium alloy. ICAREMIT-2015 IEEE

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

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- An Experimental Study on the Effect of MIG Welding parameters on the Weld-Bead Shape Characteristics IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol.2, No. 4, August 2012
- Prediction of the Effect of Submerged Arc Welding Process Parameters on Weld Bead Width for MS 1018 Steel 2012 International Journal of Engineering and Innovative Technology VOL 1 ISSUE 5
- An experimental study on the effect of increased pressure on MIG welding arc, International Journal of Applied Engineering Research VOL2 ISSUE1 PAGE22
- Parametric optimization of TIG welding using Response Surface Methodology, Volume 18, Part 7, 2019, Pages 3071-3079 Materials Today: Proceedings, ELSEVIER
- Prediction of weld bead penetration for steel using submerged arc welding process parameters International Journal of Engineering Science and Technology (IJEST) ISSN: 0975-5462 Vol. 3 No.10 October 2011 7408
- Integration of RSM with Grey based Taguchi Method for optimization of pulsed TIG welding process parameters Volume 18, Part 7, 2019, Pages 5114-5127 Materials Today: Proceedings, ELSEVIER
- Fabrication & characterization of animal hair and human hair reinforced epoxy composite international journal of scientific processes research and application (IJSPRA) ISSN: 2454-5376 www.ijspira.com Volume 2, Issue 2(March-April 2016), pp.18-22

- Fabrication & characterization of animal hair and human hair reinforced epoxy composite international journal of scientific processes research and application (IJSPRA) ISSN: 2454-5376 www.ijspira.com Volume 2, Issue 2(March-April 2016), pp.18-22
- Comparative study of the response of commercially available electrodes to underwater-welding and air-welding, International Journal of Technical Research and Applications 413-419 ,2015, vol3
- Validation of Maximum Temperature during Friction Stir Welding of Butt Joint of Aluminium Alloy by using Hyper Works Mat. Sci. Int. J. Eng. Res. Technol 2015 vol 4 817- 821
- Study And Empirical Modeling Relating Welding Parameters and Tensile Strength of Hot Air Welded PVC Plastic IJISSET-International Journal of Innovative Science, Engineering & Technology vol2 Issue 2 2015
- Prediction Of Weld Bead Reinforcement Height for Steel Using Saw Process Parameters, International Journal of Applied Engineering Research. ISSN 2012, 0973-4562
- Fuzzy rules incorporated skyhook theory based vehicular suspension design for improving ride comfort, Int. J. Eng. Res. Appl vol 5 Issue 15 Pg 30-36 2015
- Parametric optimization of tig welding to determine welding strength of S30430 stainless steel, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P), 2249, 6890
- A review on pulsed TIG welding, J Recent Activities Prod 2017 vol2 issue1 Pg 2
- Fuzzy Rules Incorporated Skyhook Theory Based Vehicular Suspension Design for Improving Ride Comfort vol5 iss5 Pg 30-36 ,2015
- Study of Process Parameters Effect on Surface Finish in Al-Alloy Sand Casting by Using Taguchi Method, International Journal of Engineering Research & Technology 2013 vol2 issue 12 Pg 1521-1526
- Pre-experimental simulation for prediction of rotational speeds for required range of temperature in friction stir welding of butt joint of aluminium alloy International Journal of Advance Research in Science and Engineering <http://www.ijarse.com> IJARSE, Vol. No.4, Special Issue (01), February 2015 ISSN-2319-8354(E)
- Study of Friction Stir Welding Technique as a Solid-State joining of Metallic Plates Mathematical Methods and Systems in Science and Engineering ISBN: 978-1-61804-281-1
- Study of Simulated Temperature of Butt Joint during Friction Stir Welding of Aluminium Alloy by Using Hyper works Int. Journal of Engineering Research and Applications
- Wire Feed Rate Optimization for MIG Welding of Aluminum Alloy 6063 International Journal of Advanced Engineering, Management and Science (IJAEMS) Peer-Reviewed Journal ISSN: 2454-1311 | Vol-8, Issue-7; Jul, 2022 Journal Home Page: <https://ijaems.com/> Article DOI: <https://dx.doi.org/10.22161/ijaems.87.1>
- An Experimental Investigation of Electrode Wear Rate (EWR) using Composite Electrodes on EDM of SS-304 International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 09 | Sep 2020 www.irjet.net p-ISSN: 2395-0072
- Accelerated Particle Swarm Optimizer for Optimizing Problems of Structural Engineering SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology

- Study of Static & Dynamic Simulation of Friction Stir Welding Process © ADR Journals 2015. All Rights Reserved
- effect of three different cutting fluid in the turning of mild steel ASI1008 international journal of technical research and application
- Software Development for Setup Planning of Rotational Part SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology
- Process Parameter Optimization in Dissimilar Joining with MIG Welding between SAPH 440 steel and Aluminium Alloy 6063 International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 10 Issue VI June 2022.
- Optimization of Weld Bead Geometrical Parameters for Submerged ARC BUTT Welds Deposited on IS 2062 Steel Using Taguchi Method
- Investigation of Effect of Process Parameters on Maximum Temperature During Friction Stir Welding of Aluminium Alloy IJSRD - International Journal for Scientific Research & Development| Vol. 3, Issue 10, 2015 | ISSN (online): 2321-0613
- Optimization of Process Parameter of Pulsed TIG Welding
- Mechanisms and Elimination of Spatter and Porosity in Gas-Metal Arc Welding of Magnesium Alloys
- To study the surface roughness and chip thickness during machining of mild steel (aisi-1008) using vegetable-based oil.
- Experimental investigation of mechanical properties of saw weldments of is-2062 steel plates international journal of mechanical and production engineering research and development (IJMPERD) ISSN (p): 2249-6890; ISSN (e): 2249-8001 vol. 8, issue 4, Aug 2018, 1043-1048.
- Process parameter optimization of pulsed tig welding using RSM UP B. sci. Bull., series d, vol. 81, issue. 2, 2019 ISSN 1454-2358
- Improve the weld quality by reducing hydrogen cracking by control of various welding parameters international journal of technical research and applications e-ISSN: 2320-8163, www.ijtra.com volume 1, issue 5 (Nov-dec 2013), PP. 13-15
- Cost Optimization of Abrasive water jet CNC water filtration Process by Using Self proposed
- To study the effect of magnetic field on bead geometry, mechanical properties and welding speed of air and water welds
- Effect of electrode wear rate on machining of stainless steel – 202 using copper electrode in EDM International Journal of Technical Research and Applications e-ISSN: 2320-8163, www.ijtra.com Volume 3, Issue 3 (May-June 2015), PP. 199-202
- Prediction of weld bead geometry for steel using submerged arc welding process parameters
- International Journal of Applied Engineering Research ISSN 0973-4562 Volume6, Number 15 (2011) Pp. 1857-1871, Research India Publications' Prediction of Weld Bead Reinforcement Height for Steel Using Submerged Arc Welding Process Parameters'
- An Experimental Study on The Effect of Increased Pressure on Mig Welding Arc Published In International Journal Of Applied Engineering Research, (IJAER), Dindigul, Volume No.2, No1, 2011, Issn:0976-4259. Pp 22-27

- International Journal of Engineering Science and Technology (IJEST), Prediction Of Weld Bead Penetration For Steel Using Submerged Arc Welding Process Parameters, ISSN: 0975-5462, Vol. 3 No.10 October 2011 Pp 7408-7416.
- Prediction Of Weld Bead Geometry for Steel Using Submerged Arc Welding Process Parameters Published in Ijaest Volume No. 12, Issue No. 1. 2011 International Journal Of Advanced Engineering Sciences And Technologies ISSN: 2230-7818.
- An Experimental Study on The Effect of Mig Welding Parameters on The Weld-Bead Shape Characteristics, ESTIJ Vol. 2, No. 4 August 2012
- Study Of Simulated Temperature of Butt Joint During Friction Stir Welding of Aluminium Alloy by Using Hyper works, Int. Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 5, Issue 1 (Part 2), January 2015, Pp.117-121
- Study Of Process Parameters Effects on Surface Finish in Aluminium Alloy Sand Casting by Using Taguchi Methods, International Journal of Engineering Research and Technology, Vol-2, Issue-12, 19/12/13.
- Prediction Of The Effect Of Submerged Arc Welding Process Parameters On Weld Width For Ms1018 Steel, Ijeit(East Bay Drive Apartment, Largo, Florida,Usa,33771) Volume 1,Issue5,May 2012 ,Issn:2277-3754,International Journal Of Engineering And Innovative Technology..
- Effect Of Three Different Cutting Fluid in The Turning of Mild Steel Asi 1008, International Journal of Technical Research and Application 1 (4), 19-22
- Improve The Weld Quality by Reducing Hydrogen Cracking by Control of Various Welding Parameters IJTRA

#### BOOK EDITED/ AUTHORED:

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- Production Operation Management New Age International Publisher New Delhi 2018

#### BOOK CHAPTERS:

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- Analysis and Optimization of Bead Geometry by Using Response Surface Methodology (05/08/2022)
  - Optimization of welding parameters using orthogonal array L25 to analysis the hardness of 316L Stainless steel joints (12/01/2024).
  - Review Book chapter IC engine VINCENT Publisher New Delhi 2016
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