



# Dr. MOHD ASLAM

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## Teaching Assistant and Research experience in Mechanical Engineering nearly Six years

### Core Skills

Teaching (Mechanical Engineering)  
Curriculum Assignment  
Invigilator Responsibility  
Dealing with Research activities  
Academic Performance Evaluations

### Education

**Doctor of Philosophy (Ph.D.) in Mechanical Engineering** in GMAW based surface coating from National Institute of Technology (NIT) Silchar, Assam, India 788010 in 2023 with 70%.

**M.Tech in Manufacturing Engineering** from Gautam Buddha University Greater Noida in 2016 with 69%.

**B.Tech in Mechanical Engineering** from Gautam Buddha University Greater Noida in 2014 with 69%.

### Profile Snapshot

Unique blend of visionary leadership with expertise in leading the administration staff and ensuring high quality of teaching, industrial job role; effective management of classes and administrative diversity. Open to worldwide relocation. Profound knowledge of Mechanical Engineering.

Organized and driven with innate ability to stay focused; used effective methods of teaching while focusing; on individual needs of each student. Bilingual in Mechanical Engineering.

Finally, committed to creating a classroom environment that is conducive to teaching and learning.

My background and research interests are in different disciplines within Manufacturing Engineering, namely: **Arc based surface coating, cladding, WAAM, GMAW, MMCs and transient thermal modeling (FEA).**

### Ph.D. Research Title (25-06-2018-26-02-2024)

Finite element modeling and improvement of surface properties of mild steel specimen using AISI 304 stainless steel based cladding by Gas Metal Arc Welding (GMAW) process

### PUBLISHED RESEARCH ARTICLES

1. **Mohd Aslam** and Chinmaya KumarSaho, [2022], "Numerical and experimental investigation for the cladding of AISI 304 stainless steel on mild steel substrate using Gas Metal Arc Welding", CIRP Journal of Manufacturing Science and Technology, vol. 37, pp.378-387, <https://doi.org/10.1016/j.cirpj.2022.02.017>. (SCIE, IF=4.8)
2. **Mohd Aslam** and Chinmaya KumarSaho, [2022], "Finite element analysis and experimental investigation of moving heat source model for GMAW deposited mild steel weld bead", Proc. IMechE Part E: Journal of Process Mechanical Engineering, vol. 236, pp. 1779-1789, DOI: 10.1177/09544089221087819. (SCIE, IF=2.4)
3. **Mohd Aslam**, Guddakesh Kumar Chandan, Brajesh Kumar Kanchan, [2022], "Evaluation of titanium nitride/titanium aluminum nitride thin film coating, plasma nitriding on AISI 304 stainless steel using the plasma-assisted physical vapor deposition process, and thermal stress investigated through finite-element analysis", Journal of Mechanical Engineering Science, vol. 237, pp.2520-2531, DOI: 10.1177/09544089221138688. (SCIE, IF=2.4)
4. **Mohd Aslam** and Chinmaya KumarSaho, [2023]. Development of hard and wear-resistant SiC- AISI304 stainless steel clad layer on low carbon steel by GMAW process. *Materials Today Communications*, vol. 36 pp.106444. <https://doi.org/10.1016/j.mtcomm.2023.106444>. (SCIE, IF=3.4)
5. **Mohd Aslam**, Chandan, G.K. and Kanchan, B.K., 2023. Development of SiC Ceramic Reinforced Composite Interlayer Cladding with AISI304 Stainless Steel Wire on Low Carbon Steel Substrate Using TIG Cladding Process. *Silicon*, pp.1-11. <https://doi.org/10.1007/s12633-023-02613-1>. (SCIE, IF=3.8)
6. **Mohd Aslam** and Chinmaya KumarSaho, [2021], "Study of the effect of welding Current on heat transfer and melt pool

- geometry on mild steel specimen through finite element analysis”, Book Chapter: Recent Advances in Mechanical Engineering, pp. 545- 553, DOI: 10.1007/978-981-15-7711-6\_54. **Book Chapter**
7. Rahul Kumar Mahato, **Mohd Aslam**, Lokavarapu Rama Krishna, and Chinmaya Kumar Sahoo, [2022], “**Development of finite elemental analysis model for numerical simulation of tig welding of thin aluminium sheet**”, Book Chapter: Recent Advances in Mechanical Engineering, pp. 613-622, Part of the Lecture Notes in Mechanical Engineering book series (LNME), DOI: 10.1007/978-981-19-3266-3\_48. **Book Chapter**
  8. Guddakesh Kumar Chandan, Brajesh Kumar Kanchan, **Mohd Aslam**, [2022], “**Implication of lean philosophies in signing supplier quality agreement: An empirical study**”, Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2022.03.169>.
  9. Brajesh Kumar Kanchan, Guddakesh Kumar Chandan, **Mohd Aslam**, [2023] “**Numerical investigation of corrugated wall configuration on hydrothermal performance and irreversibility characteristics**”, Journal: Part E: Journal of Mechanical Engineering Science, **Accepted at 5 Feb 2023**.
  10. **Mohd Aslam**, Satpal Sharma, Mohd Usman Ahmad, Anam Parveen, [2015] “**Characterization and Tribological Evaluation of Tin Thin Films Deposition by Reactive Magnetron Sputtering Process of SS304**”, International Journal of Engineering Research & Technology (IJERT), vol. 04, Issue. 10, ISSN (Online): 2278-0181, <http://dx.doi.org/10.17577/IJERTV4IS100301>.
  11. Guddakesh Kumar Chandan, **Mohd Aslam**, Brajesh Kumar Kanchan, [2023] “**Experimental and numerical analysis of corrugated micro channel on aluminium using pulsed laser**” Journal: Part E: Journal of Mechanical Engineering Science, vol. 237, pp.09544089231221733, DOI: 10.1177/09544089231221733. (*SCIE, IF=2.4*).

## EXPERIENCES

Sr. No.	Institute/Organisation	Position Held	Tenure/Duration
1	Institute of Plasma Research (IPR) Gandhinagar, Gujarat, India	Project Research on Coating	01-07-2015:30-06-2016
2	National Institute of Technology Silchar (NITS), India	Research on Coatng/Welding + Teaching Assistant	25-06-2018:26-02-2024
3	Malla Reddy Engineering College and Management Sciences Hyderabad -501401	Assistant Professor	Present

## SOFTWARE SKILLS

- Comsol Multiphysics
- ImageJ
- Profex Match
- AutoCAD
- ANSYS, Origin Pro., X'pert High score (X-ray diffraction software).

## B. Tech. WORKSHOP AND TRAINING

National Thermal Power Plant, (NTPC) Okhla Delhi.	[8 WEEK]
National Small Industries Corporation (NSIC), Aligarh.	[3 WEEK]
G.B. Pant Workshop Training at Murthal Hariyana.	[3 WEEK]

## M. Tech. PROJECT AND TRAINING

- Surface modification of AISI304 stainless steel using TiN/TiAlN coating, **Institute of Plasma Research (IPR), Gandhinagar, Gujrat, India**, all from the Institute for Plasma Research under atomic energy. [1 Year]
- Nitriding and coating for surface modification of metals.
- Transient thermal modeling in welding process with ANSYS software at *Gautam Buddha University, Greater Noida, Uttar Pradesh*.

## REFERENCES

1. **Dr. Nand Kumar**, Assistant Professor, Department of Mechanical Engineering, Gautam Buddha University, Greater Noida U.P. Email: [nandnitm1993@gmail.com](mailto:nandnitm1993@gmail.com)
2. **Dr. Brejesh Kumar Kanchan**, Assistant Manager, Amaraja Battery, Hyderabad, India. Email: [brajeshlean@gmail.com](mailto:brajeshlean@gmail.com)
3. **Dr. Neeraj Kumar Niranjana**, Microchip Senior Engineer-1, Microchip Technology India INC, Hyderabad, India. Email: [neerajk1193@gmail.com](mailto:neerajk1193@gmail.com)

I hereby certify that the information provided above is correct to the best of my knowledge and belief.  
Yours Faithfully,

Mohd Aslam  
*Mohd Aslam*