

## CURRICULUM VITAE

**Dr. Md Tanwir Alam (PhD)**

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Mobile No.: + 91-8791471024



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**Career Goal:** - Technology contribution to the world for the benefit of the Society.

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### **Experience: Teaching + Research: 5 Years**

- 1. Assistant Professor** in Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon, Maharashtra, (India). *From 01/10/2021 to till date.*
- 2. Assistant Professor** in Glocal University, Saharanpur, UP, (India).  
*From 26/08/2019 to 26/09/2021.*
- 3. JRF** in Aligarh Muslim University, Aligarh UP (India).  
*From 01/01/2019 to 30/06/2019.*

### **Academic Qualification:**

- High School with **65.14%** in the year 10 May/2003 from Bihar Board, Bihar (India)
- Diploma in Engineering (Mechanical) with **81.81%** in the year 14 Jul/2007 from Aligarh Muslim University (A.M.U.) Aligarh. (India)
- Bachelor of Engineering (Mechanical) with 8.267 C.P.I. (**73.41%**) in the year 25 Jul/2011 from A.M.U. Aligarh. (India)
- **M.Tech** in Mechanical Engineering (Industrial & Production Engg.) with 8.333 C.P.I. (**73.85%**) in the year 10 December/2013 from A.M.U. Aligarh. (India)  
**Title:** *Effect of Input Parameters on the Properties of Metal Matrix Composite Castings.*
- **PhD** in Mechanical Engineering (Industrial & Production Engg.) in the year December/2018 from A.M.U. Aligarh. (India)  
**Title:** *Experimental Investigation of Processes and Properties of Stir Cast Composites.*

### **Journal Publication:**

1. Sajid Naeem, Arun V. Patil, Arif V. Shaikh, U. P. Shinde, Dilawar Husain, **Md Tanwir Alam**, Manish Sharma, Kirti Tewari, Shameem Ahmad, Aqueel Ahmed Shah, Syed Abbas Ali, and Akbar Ahmad, 2023 “A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors”, *Advances in Materials Science and Engineering*, Volume 2023, Article ID 1133559, 15 pages, Hindawi, <https://doi.org/10.1155/2023/1133559>
2. Naveed Akhtar, Tarique Ahmad, Dilawar Husain, Ali Majdi, **Md Tanwir Alam**, Naveed Husain, Abhay Kumar S. Wayal, 2022, “Ecological footprint and economic assessment of conventional and geopolymer concrete for sustainable construction”, *Journal of Cleaner Production* 380 (2022) 134910. ISSN: 1879-1786. Elsevier, <https://doi.org/10.1016/j.jclepro.2022.134910>

3. **Md Tanwir Alam**, Md Azhar, Yasser Rafat, 2022, "Physical, Mechanical and Morphological Characterization of A356/Si<sub>3</sub>N<sub>4</sub> Nanoparticles Stir Casting Composites", *Journal of Engineering Research*, Vol 11 (3), pp. 100-111, ISSN: 2307-1885. Elsevier, [doi:10.36909/jer.16205](https://doi.org/10.36909/jer.16205)
4. **Md Tanwir Alam**, 2021, "Physical, Corrosion and Microstructural Analysis of A356/SiC Nanocomposites Fabricated through Stir Casting Process", *Materials Science Forum*, Vol. 1034, pp 73-86, ISSN: 1662-9752, Scientific.Net (Trans Tech Publications Ltd.), <https://www.scientific.net/MSF.1034.73>
5. Sajjad Arif, **Tanwir Alam**, Akhter H. Ansari & Mohd Bilal Naim Shaikh, 2019, "Morphological characterization, statistical modelling and tribological behaviour of aluminum hybrid nanocomposites reinforced with micronano- silicon carbide", *Journal of Asian Ceramic Societies*, Vol. 7, Issue 4, pp.434-448, ISSN (Online): 2187-0764, Taylor & Francis Group, <https://doi.org/10.1080/21870764.2019.1665765>
6. **Md Tanwir Alam**, Sajjad Arif, Akhter Husain Ansari and Md Naushad Alam, 2019, "Optimization of Wear Behaviour Using Taguchi and ANN of Fabricated Aluminium Matrix Nanocomposites by Two-Step Stir Casting", *Materials Research Express*, Vol. 6, Issue 3, pp.065002, ISSN (online): 2053-1591, IOP Publishing, <https://doi.org/10.1088/2053-1591/ab0871>
7. **Md Tanwir Alam**, Sajjad Arif and Akhter Husain Ansari, 2018, "Wear behaviour and morphology of stir cast aluminium/SiC nanocomposites", *Materials Research Express*, Vol. 5, Issue 4, pp.045008, ISSN (online): 2053-1591, IOP Publishing, <https://doi.org/10.1088/2053-1591/aab7b3>
8. Sajjad Arif, **Md Tanwir Alam**, Akhter H Ansari, Mohd Bilal Naim Shaikh and M Arif Siddiqui, 2018, "Analysis of tribological behaviour of zirconia reinforced Al-SiC hybrid composites using statistical and artificial neural network technique", *Materials Research Express*, Vol. 5, Issue 5, pp.056506, ISSN (online): 2053-1591, IOP Publishing, <https://doi.org/10.1088/2053-1591/aabec8>
9. Sajjad Arif, **Md Tanwir Alam**, Tariq Aziz and Akhter H Ansari, 2018, "Morphological and Wear behaviour of new Al-SiCmicro-SiCnano hybrid nanocomposites fabricated through powder metallurgy", *Materials Research Express*, Vol. 5, Issue 4, pp.046534, ISSN (online): 2053-1591, IOP Publishing, <https://doi.org/10.1088/2053-1591/aabcf0>
10. Sajjad Arif, **Md Tanwir Alam**, Akhter H Ansari, M Arif Siddiqui and Mohammad Mohsin, 2017, "Study of mechanical and tribological behaviour of Al/SiC/ZrO<sub>2</sub> hybrid composites fabricated through powder metallurgy technique", *Materials Research Express*, Vol. 4, Issue 7, pp.076511, ISSN (online): 2053-1591, IOP Publishing, <https://doi.org/10.1088/2053-1591/aa7b5f>
11. **Md. Tanwir Alam**, Akhter Husain Ansari, Sajjad Arif & Md. Naushad Alam, 2017, "Mechanical properties and morphology of aluminium metal matrix nanocomposites-stir cast products", *Advances in Materials and Processing Technologies*, Vol. 3, Issue 4, pp.600-615, ISSN (Print): 2374-068X, ISSN(Online) 2374-0698, Taylor & Francis Group, <https://doi.org/10.1080/2374068X.2017.1350543>
12. **Md. Tanwir Alam**, Akhter Husain Ansari, 2017, "Ceramic Materials and Stir Cast Aluminium Matrix Composites: A Literature Review", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 6, Issue 7, ISSN(Online): 2319-8753, ISSN (Print): 2347-6710, [DOI:10.15680/IJRSET.2017.0607201](https://doi.org/10.15680/IJRSET.2017.0607201)
13. **Md. Tanwir Alam** and Akhter Husain Ansari, 2017, Review on Aluminium and Its Alloys For Automotive Applications", *International Journal of Advanced Technology in Engineering and Science*, Vol. 5, Issue 5, ISSN 2348-7550
14. Md Shahbaz Alam, **Md Tanwir Alam**, Najeeb ur Rahman, Md Naushad Alam, 2017, "Effect of Core and Face Sheet Thickness on Dynamic Parameter of Beams Using FEM and Abaqus", *International Journal of Advance Research in Science and Engineering*, Vol. 6, Issue 2, ISSN(online) 2319-8354, ISSN(print) 2319-8346
15. **Md. Tanwir Alam** and Akhter Husain Ansari, 2015, "X-Ray Diffraction Analysis and Microstructural Examination of Al-SiC Composite Fabricated by Stir Casting Technique", *International Journal of Science, Technology & Management*, Vol. 4, Special Issue 1, ISSN(online) 2394-1537

16. Shahabaz Ahmad, **Md. Tanwir Alam**, Md. Arif Siddique, Akhter Husain Ansari, 2015, “Morphological and Flow Characteristics of Synthesized Polystyrene Composites”, *International Journal of Mechanical Engineering and Technology*, Vol. 6, Issue 5, ISSN 0976 – 6340 (Print), ISSN 0976 – 6359 (Online).
17. Shahabaz Ahmad, **Md. Tanwir Alam**, Md. Arif Siddique, Akhter Husain Ansari, 2015, “Wear and Hardness Characterization of Synthesized Polystyrene Composites”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, Issue 8, ISSN(Online) : 2319-8753, ISSN (Print) : 2347-6710, [DOI:10.15680/IJIRSET.2015.0408098](https://doi.org/10.15680/IJIRSET.2015.0408098)
18. Shahabaz Ahmad, **Md. Tanwir Alam**, Md. Arif Siddique, Akhter Husain Ansari, 2015, “Tensile Strength of Synthesized Polystyrene Composites”, *International Journal of Scientific Research Engineering & Technology*, Vol. 4, Issue 10, ISSN 2278 – 0882.
19. **Md. Tanwir Alam** and Akhter Husain Ansari, 2014, “Characterisation and Behaviour of Aluminium-Silicon Carbide Composite Casting”, *Indian Foundry Journal*, Vol. 60, Issue 11, pp.36-42.
20. **Md. Tanwir Alam** and Akhter Husain Ansari, 2014, “High Strength Aluminium-Silicon Carbide Composite Casting”, *Indian Foundry Journal*, Vol. 60, Issue 3, pp.25-32.

### Conference Proceeding:

21. Dheya Mohammed, **Md Tanwir Alam**, 2023, “Contemporary Progress on Mechanical and Wear of Aluminium Alloys Stir Casting Composites: A Review”, AIP Conf. Proc. 2821, 060003 (2023), <https://doi.org/10.1063/5.0158523>.
22. K.Sunil Ratna Kumar, Ravindra R. Solanke, G Laxmaiah, **Md Tanwir Alam**, Resham Taluja, 2023, “IoT and Data Mining Techniques to Detect and Regulating of Solar Power System”, Proceedings of the International Conference on Inventive Computation Technologies (ICICT 2023) IEEE Xplore Part Number: CFP23F70-ART; ISBN: 979-8-3503-9849-6. DOI: [979-8-3503-9849-6/23/\\$31.00 ©2023 IEEE](https://doi.org/10.1109/ICICT47893.2023.10231000)
23. **Md Tanwir Alam**, Md Azhar, Dilawar Hussain, Yasser Rafat, 2021, “Tensile Strength, Hardness and Microstructural Analysis of A356/Si3N4 Stir Casting Composites”, International Conference on Energy, Thermofluids and Materials Engineering, ICETME 2021 held online from 18 to 20 December, 2021, Algeria.
24. **Md. Tanwir Alam**, 2020, “Morphology and Corrosion Performance of Aluminium Matrix Nanocomposites Fabricated through Stir Casting Process”, a paper presented in *International Conference on Advances in Material Science and Mechanical Engineering (ICAMSME 2020)*, 07-09 Feb 2020., N.B.K.R. Institute of Science and Technology, Nellore, India.
25. **Md Tanwir Alam**, Sajjad Arif, Saifullah Zaphar, 2020, “Investigation of Tensile Strength and Morphology of A356/Si<sub>3</sub>N<sub>4</sub> Nanocomposites Processed through Stir Casting”, a paper presented in "*International Conference on Recent Advancements in Science and Technology*"(ICRAST-20), 11-12 Nov 2020., Glocal University, Saharanpur-247121 (U.P.), India.
26. **Md. Tanwir Alam** and Akhter Husain Ansari, 2017, “Mechanical Behaviour of A356 Matrix Nanocomposites Fabricated Using Two Step Mixing Via Stir Casting Technique”, *IEEE International Conference on Advances in Mechanical, Industrial, Automation and Management Systems*, [DOI: 978-1-5090-5674-3/17/\\$31.00 ©2017 IEEE](https://doi.org/10.1109/ICAIMS.2017.8261000)
27. **Md. Tanwir Alam**, Sajjad Arif and Akhter Husain Ansari, 2017, “Mechanical Behaviour and Morphology of A356/SiC Nanocomposites Using Stir Casting”, *ICMAEM-2017, IOP Conference Series: Materials Science and Engineering* **225** 012293, [doi:10.1088/1757-899X/225/1/012293](https://doi.org/10.1088/1757-899X/225/1/012293)
28. Sajjad Arif, **Md Tanwir Alam**, Akhter Husain Ansari, M. Arif Siddique, and Mohammad Mohsin, 2017, “Investigation of Mechanical and Morphology of Al-SiC composites processed by PM Route”, *ICMAEM-2017, IOP Conference Series: Materials Science and Engineering* **225** 012277, [doi:10.1088/1757-899X/225/1/012277](https://doi.org/10.1088/1757-899X/225/1/012277)
29. **Md. Tanwir Alam**, Sajjad Arif, Akhter Husain Ansari, and Md. Naushad Alam, 2016, “Problems, Causes and Their Remedies in the Development of Metal Matrix Composites by Stir

Casting Process”, *National Conference on Mechanical Engineering – Ideas, Innovations & Initiatives (NCMEI3-2016)*.

### **Book Chapter**

30. Sajid Naeem, Dilawar Husain, Kirti Tewari, Nayab Zafar, **Md Tanwir Alam** & Naveed Hussain, (2023). Carbon Footprint of Pipe Production Using Waste Plastics. In: Muthu, S.S. (eds) *Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-8323-8\\_1](https://doi.org/10.1007/978-981-19-8323-8_1)

### **Journal Reviewed**

1. Physica Scripta-IOP Publishing Group (UK)
2. Surface Topography-IOP Publishing Group (UK)
3. Materials Research Express-IOP Publishing Group (UK)
4. Engineers Research Express-IOP Publishing Group (UK)
5. Smart Materials and Structures-IOP Publishing Group (UK)
6. Canadian Metallurgical Quarterly- Taylor & Francis Group (UK)
7. Nanocomposites-Taylor & Francis Group (UK)
8. Advances in Materials and Processing Technologies-Taylor & Francis Group (UK)
9. Journal of Nanomaterials-Hindawi (UK)
10. SN Applied Sciences-Springer Nature (Switzerland)
11. Applied Composite Materials-Springer Nature (Switzerland)
12. American Journal of Mechanical and Materials Engineering-Science Publishing Group (USA)
13. And of many more Standard Journals

### **Editorial Board Member**

1. American Journal of Mechanical and Materials Engineering-Science Publishing Group (USA)
2. Journal of Mineral, Metal and Material Engineering-Scientific Array Efficient Publishing

### **Professional Bodies**

1. ASME (Membership No.100073229)
2. SME (Membership No.000016224076)
3. IAENG (Membership No. 186190)

**Scopus ID:** [57195325546](https://orcid.org/0000-0002-5311-6379)

**Web of Science Researcher ID:** [P-1122-2019](https://orcid.org/0000-0002-5311-6379)

**ORCID ID (Link):** <https://orcid.org/0000-0002-5311-6379>

**Google Scholar (Link):** <https://scholar.google.co.in/citations?user=AixcmHQAAAAJ&hl=en&oi=a>

**Research Gate (Link):** [https://www.researchgate.net/profile/Tanwir\\_Alam6](https://www.researchgate.net/profile/Tanwir_Alam6)

**Faculty Profile:** <https://mmantc.edu.in/mech-faculty/>

**Training Course/Seminar/Workshop Participation:**

- 5-day online FDP on “Clean Engineering Materials” (18-23 Dec 2023)
- 5-day online FDP on “AI Evolution: From Foundations to Generative AI” (11-15 Dec 2023)
- 5-day online FDP on “Inculcating Universal Human Values in Technical Education” (18-22 July 2022)
- NPTEL Course on Acoustic Materials and Metamaterials, January-April 2022.
- Short Term Course on Disaster Management and Sustainable Development through ICT, conducted by CE Deptt., MMANTC, (07/03/2022-11/03/2022)
- FDP attended, Computational Techniques in Mechanical Engineering (CTME), organized by ME Deptt., Aligarh Muslim University Aligarh, (11/02/2022-15/02/2022)
- FDP attended, Emerging Trends in Mechanical Engineering (ETME), organized by ME Deptt., Aligarh Muslim University Aligarh, (07/03/2022-11/03/2022)
- FDP attended, Applications of Data Science and IoT in Healthcare, Social care and Business Aspects, conducted by Glocal University Saharanpur, (02/02/2022-08/02/2022)
- FDP (ATAL) attended, Processing of Novel Materials for Defense and Aerospace Applications, conducted by IIT Tirupati, (06/12/2021-10/12/2021)
- FDP (ATAL) attended, Advances in Novel Composite Materials: Fabrication, Analysis And Optimization, conducted by NIT Patna, (06/09/2021-10/09/2021)
- Webinar Attended online (more than 10 during Covid-19) National and International
- Online Course Production Planning and Control-PPC (May 2020)
- Training Course on Rooftop Solar Grid Engineer (March 10-19, 2019)
- Training Course on Challenges of Materials in Oil Exploration (February 14-17, 2017)
- National Workshop on Condition Monitoring of machines (NWCMM-2016) (October 19-20, 2016)
- One week FDP and Finishing School (Workshop) on Computational Methods in Engineering Mechanics (3<sup>rd</sup>-7<sup>th</sup> October, 2016)
- Attended the Academic Integrity Event (Seminar) (25<sup>th</sup> April, 2016)

**Technical Skills and Competence:**

- GATE qualified in 2011 with 90 percentile
- Taguchi Design of Experiment
- Analysis of Variance (ANOVA)
- Artificial Neural Network (ANN)

**Extra-Curricular Activities:**

- Conference Coordinator and Editor ICSTS-2022 (November 2022)
- IQAC Member (September 2020 to September 2021, August 2023 to till date)
- Proctorial Board Member (August 2019 to September 2021)
- Conference Organizing Committee Member (November 2020)
- FDP Organizing Committee Member (October 2020)
- Webinar Organized and speaker “Knowledge Sharing on Research” (16 July 2020)

- Research Committee Member (September 2020 to September 2021)
- Coordinator of 2<sup>nd</sup> & 4<sup>th</sup> Year B. Tech Class (August 2019 to September 2021)
- Coordinator of Strength of Materials Lab (August 2019 to September 2021)
- Secretary Reading Room (2016-17)
- Senior Prayer Monitor (S.P.M. Sunni) (2015-2016)
- Member of National Cadet Core (NCC) (2008-2009)
- Army Attachment Camp-NCC (2008-2009)
- Participated in Combined Annual Training Camp SD-31 of NCC (2008-2009)
- Republic Day Parade (Senior Division) at Aligarh through NCC (2008-2009)
- Participating Sports Activities at School Level (2002-2003)

### **Fellowship/Financial Support:**

- AMU Alumni Scholarship during Diploma Engineering course (2004-2007)
- Central Minority Scholarship during Graduation (B.E) course (2008-2010)
- UGC GATE Scholarship during Post-graduation (M.Tech) course (July 2011-June 2013)
- UGC Scholarship during PhD course (24 February 2014 - 23 February 2018)

### **Personal Details:**

Date of Birth : 08-08-1987  
 Gender : Male  
 Father's Name : (Late) Md Sanaullah  
 Nationality : Indian  
 Marital status : Married  
 Language Known : Urdu, Hindi and English  
 Permanent address : Vill- Kusmi, P.O- Sarbela, PS- Banma Etahry  
 Distt- Saharsa -852127, Bihar (India).

### **References:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Name: Dr. Akhter H Ansari Designation: Professor Address: Department of Mechanical Engineering, Aligarh Muslim University, Aligarh-202002, U.P (India). <b>Email:</b> <a href="mailto:ahansari@zhcet.ac.in">ahansari@zhcet.ac.in</a> <a href="mailto:ahaamu@yahoo.com">ahaamu@yahoo.com</a> Mobile: +91-9997028895	Name: Dr. Md Azhar Designation: Associate Professor & Principal (Polytechnic) Address: Department of Mechanical Engineering, Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon-423203, Maharashtra (India). <b>Email:</b> <a href="mailto:md_azhar@zhcet.ac.in">md_azhar@zhcet.ac.in</a> <a href="mailto:azhar@mmantc.edu.in">azhar@mmantc.edu.in</a> Mobile: +91-8954387225	Name: Mr. Zeeshan Farooque Designation: Assistant Professor Address: Department of Civil Engineering, Maulana Azad College of Engineering and Technology, Patna- 801113, Bihar (India). <b>Email:</b> <a href="mailto:zeeshanbecivil@gmail.com">zeeshanbecivil@gmail.com</a> Mobile: +91-9760229712	Name: Dr. Tarique Ahmad Designation: Assistant Professor Address: Department of Civil Engineering, College of Engineering, Jazan University, Jazan- 45142, (Saudi Arabia). <b>Email:</b> <a href="mailto:tariqueahmadamu@gmail.com">tariqueahmadamu@gmail.com</a> Mobile: +96-6557047760

**Self-Assessment:**

I see myself as an honest, hardworking, punctual and highly ambitious person with an ability to perform well under pressure.

**Declaration:**

I, *MD.TANWIR ALAM*, hereby declare that the information furnished above is true to the best of my knowledge. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

**Place:** Malegaon, Maharashtra (India)

**Date:** February, 2024

A handwritten signature in blue ink that reads "Tanwir Alam". The signature is written in a cursive style and is contained within a light blue rectangular box.

(Md Tanwir Alam)