CURRICULUM VITAE

Dr. Md. Tanwir Alam (PhD)

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

Experience: **1. Assistant Professor** in Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon, Maharashtra, (India). *From 01/10/2021 to till date.*

1. Assistant Professor in Glocal University, Saharanpur, UP, (India).

From 26/08/2019 to 26/09/2021.

2. 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. **Md Tanwir Alam**, Md Azhar, Yasser Rafat, 2022, "Physical, Mechanical and Morphological Characterization of A356/Si3N4 Nanoparticles Stir Casting Composites", Journal of Engineering Research, Vol……, pp……., ISSN: 2307-1885. DOI:10.36909/jer.16205
2. **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
3. 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

4. **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
5. **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
6. 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
7. 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
8. 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_2 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
9. **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
10. **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/IJIRSET.2017.0607201
11. **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
12. 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
13. **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
14. 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).
15. 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
16. 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.

17. **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.
18. **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:

19. Dheya Mohammed, **Md Tanwir Alam,** 2022, **"**Contemporary Progress on Mechanical and Wear of Aluminium Alloys Stir Casting Composites: A Review", *International conference on Contemporary Innovation in Mechanical Engineering (CIME 2022), 22-23 April 2022*. RGM College of Engg and Tech, Kurnool, AP, India.
20. **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.
21. **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.
22. **Md Tanwir Alam**, Sajjad Arif, Saifullah Zaphar, 2020, "Investigation of Tensile Strength and Morphology of A356/Si_3N_4 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.
23. **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
24. **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
25. 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
26. **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).*

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)

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

Web of Science Researcher ID: P-1122-2019

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

Research Gate (Link): https://www.researchgate.net/profile/Tanwir_Alam6

Training Course/Seminar/Workshop Participation:

- NPTEL Course on Acoustic Materials and Metamaterials, January-March 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 (3rd-7th October, 2016)

- Attended the Academic Integrity Event (Seminar) (25th 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:

- IQAC Member (September 2020 to September 2021)
- 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 2nd & 4th 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:

1	2	3
Name: Dr. Akhter H Ansari Designation: Professor Address: Department of Mechanical Engineering, Aligarh Muslim University, Aligarh-202002, U.P (India). **Email:** ahansari@zhcet.ac.in ahaamu@yahoo.com Mobile: +91-9997028895	Name: Dr. Md Azhar Designation: Associate Professor & HOD Address: Department of Mechanical Engineering, Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon-423203, Maharashtra (India). **Email:** md_azhar@zhcet.ac.in azhar@mmantc.edu.in 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). **Email:** zeeshanbecivil@gmail.com Mobile: +91-9760229712

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: June, 2022

(Md. Tanwir Alam)