

CURRICULUM VITAE

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Department of Mechanical Engineering
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Citation-212, h index-9, i10 index-8

ABHIJIT BHOWMIK

Objective To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills and secure a responsible career opportunity to fully utilize my training and skills while making a significant contribution to the success of this organization.

Work Experience

Sl. No.	College Name	Designation	Duration	Experience
1	Dream Institute of Technology Thakurpukur, B.H.Road, Samali, Dist.: South 24 Parganas, Kolkata-700104, West Bengal	Assistant Professor Department of Mechanical Engineering (ME)	1 st March 2015 to 13 th January 2017	2 Years
2	Dream Institute of Technology Thakurpukur, B.H.Road, Samali, Dist.: South 24 Parganas, Kolkata-700104, West Bengal	Assistant Professor Department of Mechanical Engineering (ME)	1 st December 2021 to till now	1 Year

Educational Qualifications

Degrees Awarded	College / School (University / Board)	Year of Passing	Stream/ Branch	Percentage / CGPA
Ph.D	National Institute of Technology Agartala	Thesis Submitted	Mechanical Engineering	
M.Tech.	National Institute of Technology Agartala	2014	Mechanical Engineering Specialization in Thermal Science and Engineering	CGPA-7.69 (71.90%)
B.E.	Tripura University	2012	Mechanical Engineering	CGPA: 6.95 (69.50%)
12th Standard	TBSE	2008	Science Stream (Bengali, English, Math, Physics, Chemistry, Biology))	54.40%
10th Standard	TBSE	2006	General (Bengali, English, Math, Physical Science, Life Science, History, Geography)	66.50%

Lists of Publication

Journal Paper

SCI Indexed journal

1. Bhowmik, A., Meher, A., Biswas, S., Dey, D., Kumar, M. S., Biswas, A., & Alsharabi, R. M. (2022). Synthesis and Characterization of Borosilicate Glass Powder-Reinforced Novel Lightweight Aluminum Matrix Composites. *Advances in Materials Science and Engineering*, 2022.
2. Bhowmik, A., Dey, D., & Biswas, A. (2021). Comparative study of microstructure, physical and mechanical characterization of SiC/TiB₂ reinforced Aluminium matrix composite. *Silicon*, 13(6), 2003-2010.
3. Dey, D., Bhowmik, A., & Biswas, A. (2020). Effect of SiC content on mechanical and tribological properties of Al₂₀₂₄-SiC composites. *Silicon*, 1-11.
4. Dey, D., Bhowmik, A., & Biswas, A. (2020). Influence of titanium diboride addition on friction and wear behaviour of Al₂₀₂₄-TiB₂ ex-situ composites. *Transactions of Nonferrous Metals Society of China*. 31(5), 1249-1261.
5. Dey, D., Bhowmik, A., & Biswas, A. (2020). Characterization of physical and mechanical properties of aluminium based composites reinforced with titanium diboride particulates. *Journal of Composite Materials*, 55(14), 1979-1991.
6. Bhowmik, A., Dey, D., & Biswas, A. (2021). Characteristics Study of Physical, Mechanical and Tribological Behaviour of SiC/TiB₂ Dispersed Aluminium Matrix Composite. *Silicon*, 1-14.
7. Bhowmik, A., Dey, S., Dey, D., & Biswas, A. (2021). Dry sliding Wear performance of Al₇₀₇₅/SiC composites by applying Grey-fuzzy approach. *Silicon*, 1-16.
8. Bhowmik, A., Dey, D., & Biswas, A. (2021). Microstructure, mechanical and wear behaviour of Al₇₀₇₅/SiC aluminium matrix composite fabricated by stir casting. *Indian Journal of Engineering and Materials Sciences*. 28(1), 46-54.
9. Bhowmik, A., & Biswas, A. (2021). Wear Resistivity of Al₇₀₇₅/6wt.% SiC Composite by Using Grey-Fuzzy Optimization Technique. *Silicon*, 1-14.
10. Bhowmik, A., Dey, D., & Biswas, A. (2021). Impact of TiB₂ content and sliding velocity on wear performance of aluminium matrix composites. *Journal of Scientific and Industrial Research*, 80(7), 600-605.
11. Saha, D., Gurung, J., Roy, B., Pulikkal, A. K., Bhowmik, A., & Pattanayak, S. (2022). Optimizing pyrolysis process parameters of plastic grocery bag, with mass–energy assessment and characterization of oil at optimal condition. *Clean Technologies and Environmental Policy*, 1-18.
12. Dey, D., Bhowmik, A., & Biswas, A. (2022). Tribological performance Optimization of Al₂₀₂₄-TiB₂ composites using Grey-Taguchi approach. *International Journal of Cast Metals Research*, 1-8.
13. Dey, D., Bhowmik, A., & Biswas, A. (2022). A grey-fuzzy based multi-response optimization study on the friction and wear characteristics of titanium diboride reinforced aluminium matrix composite. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*
14. Ogunsanya, O. A., Akinwande, A. A., Mohan, M. R., Talabi, H., Kumar, M., Vignesh, M, Bhowmik, A. (2023). Experimental investigation on the mechanical performance of the Al₂O₃ and ZrO₂ added Al-Mg-Si alloy for structural applications. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*

SCOPUS Indexed journal

1. Islam, M., Bhowmik, A., Haidar, S., & Biswas, S. (2022). Machining Performance of Nano SiC and Graphite Powder mixed Aluminum Matrix Composites fabricated by Powder Metallurgy using EDM. *Materials Today: Proceedings*
2. Bhowmik, A., Dey, D., & Biswas, A. (2020). Tribological behaviour of aluminium-titanium diboride (Al7075-TiB₂) metal matrix composites prepared by stir casting process. *Materials Today: Proceedings*, 26(2), 2000-2004.
3. Bhowmik, A., Chakraborty, D., Dey, D., & Biswas, A. (2020). Investigation on wear behaviour of Al7075-SiC metal matrix composites prepared by stir casting. *Materials Today: Proceedings*, 26(2), 2992-2995.
4. Dey, D., Bhowmik, A., & Biswas, A. (2020). Wear behavior of stir casted aluminum-titanium diboride (Al2024-TiB₂) composite. *Materials Today: Proceedings*, 26(2), 1203-1206.
5. Dey, D., Chintada, S. K., Bhowmik, A., & Biswas, A. (2020). Evaluation of wear performance of Al2024-SiC ex-situ composites. *Materials Today: Proceedings*, 26(2), 2996-2999.
6. Biswas, A., & Bhowmik, A. (2018). Study of Heat Generation and Its Effect During Submerged Arc Welding (SAW) on Mild Steel Plate at Zero Degree Celsius Plate Temperature. *Materials Today: Proceedings*, 5(5), 13400-13405.
7. Bhowmik, A., Saha, S., Kumar, M. S., Dey, D., & Biswas, S. (2022). Non-lubricated dry sliding wear activities of Al7075/Fly ash nanocomposites by exploring grey based Taguchi optimization. *Materials Today: Proceedings*.

Conference Paper

1. Ajay Biswas, Abhijit Bhowmik, Dipankar Dey, Akshar S. Vasekar, Study of Ultimate Tensile Strength of Borosilicate Reinforced Metal Matrix Composite; *Advanced Science, Engineering and Medicine*; e-ISSN: 2164-6635; Volume 12, Issue 10; October, 2020 pp. 1285-1288;
2. Ajay Biswas, Abhijit Bhowmik, *Study of hardness of weldment formed by Submerged Arc Welding (SAW) at different plate temperature*; *Journal of Material Science and Mechanical Engineering (JMSME)* p-ISSN: 2393-9095; e-ISSN: 2393-9109; Volume 6, Issue 3; April-June, 2019 pp. 134- 138.
3. Ajay Biswas, Swapan Bhaumik, Abhijit Bhowmik, “*Study of microstructure of weldment obtained by Submerged Arc Welding(SAW) on IS 2062 grade B mild steel plate at zero degree Celsius*”. The XIII International Conference on Mechanical Engineering Design and Analysis (ICMEDA 2015), January, 23-24, 2015, Paris, France. [Published in International Science Index of World Academy of Science, Engineering and Technology (WASET), eISSN: 1307-6892, Volume: Paris France jan 23-24, 2015, 13(01) Part IX, pp. 1347-1350]
4. Ajay Biswas, Abhijit Bhowmik, ‘Study of optimal process condition of Submerged Arc Welding at zero degree Celsius and thirty degree Celsius plate temperature’, The 30th National Convention of Production Engineers (NCPR-2015) and National Seminar on “Sustainable Manufacturing” during July 18-19, 2015 at Agartala organized by The Institution of Engineers (India), Tripura State Centre in association with National Institute of Technology Agartala. [Published in the Conference Proceedings NCPR-15-1046, pp. (46-1) - (46-13) (2015)]
5. Ajay Biswas, Abhijit Bhowmik, Saurav Datta, Swapan Bhaumik, “*Feasibility Study of Submerged Arc Welding (SAW) on mild steel plate IS 2062 grade B at zero degree Celsius*” The XIII International Conference on Materials, Mechanical and Industrial Engineering (ICMMIE 2015) March 29-30, 2015, Singapore, [Published in International Science Index of World Academy of Science, Engineering and Technology (WASET), eISSN: 1307-6892, Volume: Singapore SG Mar 29-30, 2015, 13(3) Part XVI, pp. 1694-1697]

Membership

1. ASSOCIATE MEMBER OF THE INSTITUTION OF ENGINEERS (INDIA)
2. MEMBER OF THE INSTITUTION'S INNOVATION COUNCIL (IIC)

Lists of Certification

GIAN Course:

- Attended 12 day's GIAN course in Advanced Course on Sustainability in Materials & Design at NIT, Jaipur
- Attended 12 day's GIAN course in Sustainable Cooling Technologies at NIT, Agartala

Faculty Development Programmes:

- Attended 5 days online Faculty Development Program on "Recent trends in Research & Innovation in Engineering and Technology" organized by Amity University Kolkata from 25th June to 29th July 2022.
- Attended 5 days online Faculty Development Program on "IPR Management" organized by NIT Mizoram from 27th June to 1st July 2022.

Conference attended:

- Attended 10th International Conference of Materials Processing and Characterization organized by GLA Mathura from 23rd February to 25th February 2020.
- Attended International Conference on Sustainable Nanotechnology and Nanomaterials (ICONN-2022) conducted on 25th & 26th August 2022 at Chandigarh University

Seminars:

- Attended 2 day's workshop on Reliability Engineering & Management at NIT, Agartala
- Attended 2 day's workshop Recent advantages of Welding Process at NIT, Agartala
- Attended 2 day's workshop Advanced materials and Machining at NIT, Agartala
- Attended 3 day's short term course in Multi Objective Optimization Methods and Applications in Manufacturing (MOOMAM 2014) at NIT, Rourkela

Software Skills

- *Auto CAD*
- *Matlab*
- *Minitab*
- *Origin Pro*
- *Lab View*
- *Microsoft office (Word, Excel, Power Point).*

Computer Proficiency

- *Operating System: Windows XP/7, Professional 8/8.1, 10*

Courses Taught/Teaching

1. *Strength of Materials*
2. *Advanced Welding Technology*
3. *Workshop/Manufacturing Practice Lab*
4. *Engineering Drawing*
5. *Power Plant Engineering*
6. *Kinematics and Theory of Machines*

References Available Upon Request

Abhijit Bhowmik
Signature