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EDUCATION:

- Ph.D. (Mechanical Engineering), Saga University, Japan, 2005.
- M.Sc. (Mechanical Engineering), University Putra Malaysia (UPM), 1998.
- B.Sc. (Mechanical Engineering), Bangladesh Institute of Technology Rajshahi (BITR) (Presently, Rajshahi University of Engineering and Technology (RUET), Bangladesh), 1991.

AREAS OF EXPERTISE:

- Advanced Materials/Innovative Materials, Processing and Characterization
- Polymer and Composite Materials, Properties and Characterization
- Engineering Tribology, Surface Engineering
- Advanced Design of Machinery and Machine Elements
- Tribological Behavior of Polymer and Composite Materials
- Tribological Behavior of Metals and Alloys
- Substrate Surface Treatments and Application of Coating Technology
- Durability and Tribological Properties of Thermally Sprayed Cermet Coatings
- Deposition of Thin Film Coating using Thermal CVD
- Friction and Wear Behavior of Thin Film Coatings Deposited by CVD
- Fluid Film Lubrication, Design Analysis of Journal Bearing Parameters
- Elastohydrodynamic Lubrication (EHL), Contact Mechanics

PRESENT RESEARCH APPROACH/THEME:

- Processing, Characterization and Properties of Metal-Ceramic Functionally Graded Materials (FGMs)
- Processing of Polymer and Composite Materials, Properties and Characterization
- Experimental Investigation of Thin Film Coatings Deposited on Different Steel Substrates by Thermal Chemical Vapor Deposition (CVD)
- Experimental Investigation of Erosion Behaviors of Polymer and Composite Materials
- Tribological Properties of Thin Film Coatings Deposited by Thermal CVD
- Friction and Wear Behavior of Polymer and Composite Materials Sliding against Different Counterfaces under a Range of Operating Conditions

IMPORTANT DESIGN OF RESEARCH PROJECTS:

- Design and Fabrication of Pin-on-Disc Tribometer
- Design and Fabrication of Chemical Vapor Deposition (CVD) Unit

ACADEMIC EXCELLENCE:

- Received Japanese Government (Monbukagakusho) Research Scholarship (October 2002 – September 2005)
- Received European Commission (EC) Research Assistantship (July 1995 - Dec. 1996)
- Received Bangladesh Government Merit Scholarship for academic excellence in Higher Secondary Certificate (H.S.C.) Examination (1985-1989)
- Received Bangladesh Government Junior Merit Scholarship for academic excellence (1980-1981)

PROFESSIONAL EXPERIENCES:

- December 2013 – Present: Associate Professor, Faculty of Manufacturing Engineering, University Malaysia Pahang (UMP), Malaysia
- September 2012 – December 2013: Visiting Professor, Faculty of Manufacturing Engineering, University Malaysia Pahang (UMP), Malaysia
- December 2008 – December 2012: Professor, Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- May 2006 - December 2008: Associate Professor, Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- October 2005 – May 2006: Assistant Professor, Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- October 2002–September 2005: PhD Research Scholar, Faculty of Science and Engineering, Saga University, Japan.
- May 1999 – September 2005: Assistant Professor, Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- September 1997- May 1998: Part-time Lecturer, Department of Mechanical Engineering, Institute Technology Jaya, Kuala Lumpur, Malaysia.
- July 1995 – December 1996: Research Assistant (Funded by European Commission), Faculty of Engineering, University Putra Malaysia (UPM).
- October 1991 – July 1995: Lecturer, Department of Mechanical Engineering, Bangladesh Institute of Technology Dhaka (BITD), (presently, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh).

ADMINISTRATIVE EXPERIENCES:

- June 2009 – June 2011: Dean, Faculty of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- January 2009 – May 2011: Head, Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.

RELEVANT OTHER PROFESSIONAL EXPERIENCES/RESPONSIBILITIES:

- March 2015 – Present: Postgraduate Coordinator, Faculty of Manufacturing Engineering, University Malaysia Pahang
- July 2014 – Present: Panel member, External grant (FRGS), University Malaysia Pahang
- March 2015 – Present: Panel member, Research Grant Proposal Evaluation, Faculty of Manufacturing Engineering, University Malaysia Pahang

- July 2009 – August 2012: Member, Syndicate of Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- July 2009 – June 2011: Alternate Chairman/Member, University Proposal Screening Committee (UPSC) under Higher Education Quality Enhancement Project (HEQEP) of University Grants Commission (UGC), Bangladesh, Financed by World Bank.
- July 2009 – June 2011: Member, University Academic Innovation Fund Secretariat (UAIFS) under Higher Education Quality Enhancement Project (HEQEP) of University Grants Commission (UGC), Bangladesh, Financed by World Bank.
- February 2012 – December 2012: Member, Committee for Advanced Studies and Research (CASR), DUET.
- June 2009 – June 2011: Chairman, Executive Committee, Faculty of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Academic Committee (Postgraduate), Department of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Admission Committee (Postgraduate), Department of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Examination Committee (Postgraduate), Department of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Academic Committee (Undergraduate), Department of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Examination Committee (Undergraduate), Department of Mechanical Engineering, DUET.
- January 2009 – May 2011: Chairman, Inspection Committee, Purchased Machinery and Laboratory Materials for the Department of Mechanical Engineering, DUET.
- Session 2009-2010/2010-2011: Chairman of the Committee for the rules of admission for the foreign students at different departments of DUET.
- Session 2009-2010/2010-2011: Coordinator, Admission Committee for the enrollment of B.Sc. Engineering students at different departments of DUET.
- June 2009 - June 2011: Member, Equivalence Committee of DUET for determining the equivalence of undergraduate and postgraduate degrees.
- January 2008 - June 2009: Member, Tender Evaluation Committee, DUET.
- May 2006 – December 2012: Member, Academic Council, DUET.

SCIENTIFIC PUBLICATIONS:

Book Chapter

Friction and Wear of Polymer and Composites by Dewan Muhammad Nuruzzaman and Mohammad Asaduzzaman Chowdhury in the Book “Composites and Their Properties” Chapter 14, Page: 299-330 (2012). Edited by: Prof. Ning Hu, ISBN 978-953-51-0711-8. Publisher: InTech

Publications in Refereed Journals:

1. Debnath, U.K., Chowdhury, M.A. and **Nuruzzaman, D.M.**, “The Experimental Characteristics and Evaluation of Nylon-12 in Erosion Process” Journal of Testing and Evaluation, (2017) (in press). Publisher: American Society for Testing and Materials, ASTM International. Indexed in: Thomson/ISI

2. Chowdhury, M.A., Debnath, U.K., **Nuruzzaman, D.M.**, “Study of Erosion Performance and Characterization of Ebonite Reinforced with Carbon Fibers” *Materials Performance and Characterization*, (2017) (in press). Publisher: American Society for Testing and Materials, ASTM International. Indexed in: Thomson/ISI/SCOPUS
3. Chowdhury, M.A., Debnath, U.K., **Nuruzzaman, D.M.** and Islam, M.M., “Experimental analysis of aluminum alloy under solid particle erosion process” *Proc. IMechE, Part J: Journal of Engineering Tribology*, Vol. 230, No. 12, pp. 1516-1541, (2016). Publisher: SAGE Publications Ltd., UK. Indexed in: Thomson/ISI
4. Rahman, M.M., Chowdhury, M.A., **Nuruzzaman, D.M.**, Debnath, U.K., Kowser, M.A., and Roy, B.K., “Deposition Rates on Stainless Steel Substrates of Different Surface Roughnesses under Different Operating Conditions Using Thermal CVD” *International Journal of Surface Science and Engineering*, Vol. 10, No. 3, pp. 282-302, (2016). Publisher: Inderscience Publishers Ltd., UK. Indexed in: Thomson/ISI
5. Asif Iqbal A.K.M., **Nuruzzaman, D.M.**, “Effect of the Reinforcement on the Mechanical Properties of Aluminium Matrix Composite” *International Journal of Applied Engineering Research*, Vol. 11, No. 21, pp. 10408-10413, (2016). Publisher: Research India Publications. Indexed in: SCOPUS
6. **Nuruzzaman, D.M.** and Kamaruzaman, F.F.B. and Azmi, N.B.M., “Effect of Sintering Temperature on the Properties of Aluminium-Aluminium Oxide Composite Materials” *International Journal of Engineering Materials and Manufacture*, Vol. 1, No. 2, pp. 59-64, (2016). Publisher: Deer Hill Publications. Indexed in: Google Scholar
7. Oumer, A.N, Ibrahim, A.A., **Nuruzzaman, D.M.**, Yusuf, K., “Simulation on effect of flow induced fiber orientation on the mechanical properties of fiber reinforced composites” *ARPN Journal of Engineering and Applied Sciences*, Vol. 11, No. 18, pp. 10931-10934, (2016). Publisher: Asian Research Publishing Network (ARPN). Indexed in: SCOPUS
8. **Nuruzzaman, D.M.** and Kamaruzaman, F.F.B., “Processing and mechanical properties of aluminium-silicon carbide metal matrix composites” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-7, (2016). Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS
9. **Nuruzzaman, D.M.**, Kusaseh, N., Basri, S., Oumer, A.N. and Hamedon, Z., “Modeling and flow analysis of pure nylon polymer for injection molding process” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-7, (2016). Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS
10. **Nuruzzaman, D.M.**, Chowdhury, M.A., Rahaman, M.L. and Oumer, A.N., “Influence of normal loads and sliding velocities on friction properties of engineering plastics sliding against rough counterfaces” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-8, (2016). Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS
11. Chowdhury, M.A. and **Nuruzzaman, D.M.**, “Investigation of thin film deposition on stainless steel 304 substrates under different operating conditions” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-8, (2016). Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS
12. Debnath, U.K., Chowdhury, M.A. and **Nuruzzaman, D.M.**, “Erosive wear characteristics of multi-fiber reinforced polyester under different operating conditions” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-9, (2016). Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS
13. **Nuruzzaman, D.M.**, Asif Iqbal A.K.M., Oumer, A.N., Ismail, N.M. and Basri, S., “Experimental investigation on the mechanical properties of glass fiber reinforced nylon” *IOP Conference Series: Materials Science and Engineering*, Vol. 114, pp. 1-7, (2016).

Publisher: IOP Publishing Ltd., UK. Indexed in: SCOPUS

14. **Nuruzzaman, D.M.**, Jamaludin, S.N.S., Kamaruzaman, F.F.B., Basri, S., Zulkifli, N.A.M.B., "Fabrication and Mechanical Properties of Aluminium-Aluminium Oxide Metal Matrix Composites" *International Journal of Mechanical and Mechatronics Engineering (IJMME)*, Vol. 15, No. 6, pp. 68-75, (2015). Publisher: IJENS Publishers, Pakistan. Indexed in: SCOPUS
15. Debnath, U.K., Chowdhury, M.A., **Nuruzzaman, D.M.**, Rahman, M.M., Roy, B.K., Kowser, M.A., Islam, M.M., "Erosion Characteristics of Teflon under Different Operating Conditions" *Journal of Polymer Engineering*, Vol. 35, No.9, pp. 889-904, (2015). Publisher: Walter de Gruyter GmbH & Co. KG, Germany. Indexed in: Thomson/ISI
16. Chowdhury, M.A., Debnath, U.K., **Nuruzzaman, D.M.**, Islam, M.M., "Experimental Evaluation of Erosion of Gunmetal under Asymmetrical Shaped Sand Particle" *Advances in Tribology*, Vol. 2015, pp. 1-31, (2015). Publisher: Hindawi Publishing Corporation, Egypt. Indexed in: Thomson/ISI/SCOPUS
17. **Nuruzzaman, D.M.**, Chowdhury, M.A., Rahman, M.M., Kowser, M.A., Roy, B.K., "Experimental Investigation on Friction Coefficient of Composite Materials Sliding against SS 201 and SS 301 Counterfaces" *Procedia Engineering*, Vol. 105, pp. 858-864, (2015). Publisher: Elsevier Ltd., UK Indexed in: SCOPUS
18. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K., Sorker, N.C., Karim, R., Hasan, M., Mia, S., "Experimental Study on Friction Coefficient and Wear Rate of Gun Metal Sliding against Different Counterface Materials" *Journal of the Balkan Tribological Association*, Vol. 20, No.2, pp. 169-183, (2014). Publisher: Bulgarian-English Academic Publishing House. Indexed in: Thomson/ISI
19. Chowdhury, M. A., **Nuruzzaman, D.M.**, Kowser, A., Rahman, M., Roy, B. K., Chakraborty, S., Hossen, S., Uddin, I., Hossain, S., "Frictional Behavior of Polymers Sliding Against Smooth and Rough Mild Steel Counter Faces" *Middle-East Journal of Scientific Research*, Vol. 21, No.3, pp. 477-486, (2014). Publisher:IDOSI Publications. Indexed in: SCOPUS
20. Jamaludin, S.N.S., Basri, S., Hussain, A., Al-Othmany, D.S., Mustapha, F., **Nuruzzaman, D.M.**, "Three-Dimensional Finite Element Modeling of Thermomechanical Problems in Functionally Graded Hydroxyapatite/Titanium Plate" *Mathematical Problems in Engineering*, Vol. 2014, 20 pages (2014). Publisher: Hindawi Publishing Corporation. Indexed in: Thomson/ISI
21. Chowdhury, M.A., **Nuruzzaman, D.M.**, Chowdhury, M.A.K., Roy, B.K., "Experimental Study of Friction Coefficient and Wear Rate of Turned and Ground Mild Steel Surfaces Sliding against Smooth and Rough SS304 Counterfaces" *Australian Journal of Mechanical Engineering*, Vol. 12, No.3, pp. 291-304, (2014). Publisher: Institution of Engineers Australia. Indexed in: SCOPUS
22. Chowdhury, M.A., **Nuruzzaman, D.M.**, Kowser, M.A., Rahman, M.M., Roy, B.K., Chakraborty, S., Islam, M.D., Aktaruzzaman, M., Nurmohammad., "Sliding Friction of Steel Combinations" *The Open Mechanical Engineering Journal*, Vol. 8, pp. 364-369, (2014). Publisher: Bentham Science Publishers, Ltd., USA. Indexed in: SCOPUS
23. Chowdhury, M.A., **Nuruzzaman, D.M.**, Rahaman, M.L., "Frictional Characteristics of Steel Materials Sliding against Mild Steel" *Advanced Materials Research (AMR)*, Vol. 903, pp. 33-38, (2014). Publisher: Trans Tech Publications Ltd., Switzerland. Indexed in: SCOPUS
24. Rahaman, M.L., Chowdhury, M.A., **Nuruzzaman, D.M.**, "Experimental Investigation on Friction Coefficient of Engineering Polymers Sliding against Different Counterface Materials" *Advanced Materials Research (AMR)*, Vol. 903, pp. 90-95, (2014). Publisher: Trans Tech Publications Ltd., Switzerland. Indexed in: SCOPUS

25. Latiff, M.I.A., Jamaludin, S.N.S., Basri, S., Hussain, A., Al-Othmany, D.S., Mustapha, F., **Nuruzzaman, D.M.**, Ismail, N.M., Ismail, I., “Effect of Sintering Temperature on Functionally Graded Nickel/Alumina Plate” *Applied Mechanics and Materials*, Vol. 629, pp. 437-443, (2014). Publisher: Trans Tech Publications Ltd., Switzerland. Indexed in: SCOPUS
26. **Nuruzzaman, D.M.**, Chowdhury, M.A., “Friction Coefficient and Wear Rate of Different Materials Sliding against Stainless Steel” *International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS)*, Vol. 1, No.1, pp. 33-45, (2013). Publisher: IGI Global, USA. Indexed in: INSPEC
27. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, “Experimental Investigation of Friction Coefficient and Wear rate of Stainless Steel 304 Sliding against Smooth and Rough Mild Steel Counterfaces”, *Gazi University Journal of Science (GUJS)*, Vol. 26, No. 4, pp. 597-609, (2013). Publisher: Gazi University, Turkey Indexed in: SCOPUS
28. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Rahman, M.M., Mia, M.S., Mia, M.R., Bhumik, S., “Experimental Investigation of Friction Coefficient and Wear rate of Different Sliding Pairs”, *World Applied Sciences Journal (WASJ)*, Vol. 28, No. 5, pp. 608-619, (2013). Publisher: IDOSI Publications, Indexed in: SCOPUS
29. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Samad, S., Sarker, R., Rezwan, A.H.M., “Experimental Investigation of Friction Coefficient and Wear Rate of Composite Materials Sliding against Smooth and Rough Mild Steel Counterfaces”, *Tribology in Industry*, Vol. 35, No. 4, pp. 286-296, (2013). Publisher: Faculty of Engineering, University of Kragujevac, Serbia. Indexed in: SCOPUS
30. Chowdhury, M.A., **Nuruzzaman, D.M.**, “Experimental Investigation on Friction and Wear Properties of Different Steel Materials” *Tribology in Industry*, Vol. 35, No.1, pp. 42-50, (2013). Publisher: Faculty of Engineering, University of Kragujevac, Serbia. Indexed in: SCOPUS
31. **Nuruzzaman, D.M.**, Chowdhury, M.A., “Friction Coefficient and Wear Rate of Copper and Aluminum Sliding against Mild Steel” *International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies (ITJEMAST)*, Vol. 4, No.1, pp. 29-40, (2013). Publisher: Thammasat University, Thailand. Indexed in: DOAJ
32. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Rahman, M.M., Azad, M.A.K., Rahman, M.M., Bhumik, S., “Friction Coefficient and Wear Rate of Copper Mating with Smooth and Rough Stainless Steel 304 Counterfaces”, *Journal of American Science*, Vol. 9, No.5, pp. 361-368, (2013). Publisher: Science Publications, USA.
33. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Islam, A., Hossain, Z., Hasan, M.R., “Experimental Investigation of Friction Coefficient and Wear Rate of Stainless Steel 202 Sliding against Smooth and Rough Stainless Steel 304 Counterfaces”, *Friction and Wear Research (FWR)*, Vol. 1, No. 3, pp. 34-41, (2013). Publisher: Science and Engineering Publishing Company, USA. Indexed in: Scribd
34. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Dey, P.K., Mostafa, M.G., Islam, M.S., Mia, M.R., “Experimental Investigation on Friction and Wear of Stainless Steel 304 Sliding Against Different Pin Materials”, *World Applied Sciences Journal (WASJ)*, Vol. 22, No. 12, pp. 1702-1710, (2013). Publisher: IDOSI Publications, Indexed in: SCOPUS
35. Jamaludin, S.N.S., Mustapha, F., **Nuruzzaman, D.M.**, Basri, S.N., “A Review on the Fabrication Techniques of Functionally Graded Ceramic-Metallic Materials in Advanced Composites” *Scientific Research and Essays (SRE)*, Vol. 8, No. 21, pp. 828-840, (2013). Publisher: Academic Journals, Inc., USA. Indexed in: SCOPUS
36. Jamaludin, S.N.S., Mustapha, F., **Nuruzzaman, D.M.**, Ya, T.M.Y.T., Basri, S., “Finite Element Calculation of Residual Thermal Stresses for Functionally Graded Hydroxyapatite-Titanium Plate Design” *Academic Platform Journal of Engineering and*

- Science (APJES) Vol. 1, No. 2, pp. 1-10, (2013). Publisher: Academic Platform, Turkey
37. **Nuruzzaman, D.M.**, Rahaman, M.L., Chowdhury, M.A., “Friction Coefficient and Wear Rate of Polymer and Composite Materials at Different Sliding Speeds” International Journal of Surface Science and Engineering, Vol. 6, No.3, pp. 231-245, (2012). Publisher: Inderscience Publishers Ltd., UK. Indexed in: Thomson/ISI
 38. Chowdhury, M.A., **Nuruzzaman, D.M.**, “Influence of Gas Flow Rate on the Deposition Rate on Stainless Steel 202 Substrates” Tribology in Industry, Vol. 34, No. 4, pp. 226-231, (2012). Publisher: Faculty of Engineering, University of Kragujevac, Serbia. Indexed in: SCOPUS
 39. **Nuruzzaman, D.M.**, Chowdhury, M.A., “Friction Coefficient of Polymer and Composite Materials Sliding against Stainless Steel” Advanced Materials Research (AMR), Vol. 576, pp. 590-593, (2012). Publisher: Trans Tech Publications Ltd., Switzerland. Indexed in: SCOPUS
 40. Chowdhury, M.A., **Nuruzzaman, D.M.**, “Deposition on SS 316 at Different Gas Flow Rates using Thermal CVD” Advanced Materials Research (AMR), Vol. 576, pp. 594-597, (2012). Publisher: Trans Tech Publications Ltd., Switzerland. Indexed in: SCOPUS
 41. Chowdhury, M.A., **Nuruzzaman, D.M.**, Mia, A.H., Rahaman, M.L., “Friction Coefficient of Different Material Pairs Under Different Normal Loads and Sliding Velocities” Tribology in Industry, Vol. 34, No.1, pp.18-23, (2012). Publisher: Faculty of Engineering, University of Kragujevac, Serbia. Indexed in: SCOPUS
 42. **Nuruzzaman, D.M.**, Chowdhury, M.A., “Effect of Normal Load and Sliding Velocity on Friction Coefficient of Aluminum Sliding Against Different Pin Materials” American Journal of Materials Science, Vol. 2, No. 1, pp. 26-31, (2012). Publisher: Scientific & Academic Publishing, USA.
 43. Chowdhury, M.A., **Nuruzzaman, D.M.**, Hannan, M.A. “Effect of Sliding Velocity and Relative Humidity on Friction Coefficient of Brass Sliding against Different Steel Counterfaces” International Journal of Engineering Research and Applications, Vol. 2, No. 2, pp. 1425-1431, (2012). Publisher: IJERA, India. Indexed in: DOAJ
 44. Chowdhury M.A., **Nuruzzaman, D.M.**, Rahman M.L., “The Effect of Gas Flow Rate on the Thin Film Deposition Rate on Carbon Steel Using Thermal CVD” International Journal of Chemical Reactor Engineering, Vol. 9, pp. 1-18, (2011). Publisher: The Berkeley Electronic Press, USA. Indexed in: Thomson/ISI
 45. **Nuruzzaman, D.M.**, Chowdhury, M.A., Rahaman, M.L., “Effect of Duration of Rubbing and Normal Load on Friction Coefficient for Polymer and Composite Materials” Industrial Lubrication and Tribology, Vol. 63, No. 5, pp. 320-326, (2011) Publisher: Emerald Group Publishing Ltd., UK. Indexed in: Thomson/ISI
 46. **Nuruzzaman, D.M.**, Chowdhury M.A., Nakajima A, Rahman M.L., Karim, S.M.I. “Friction and Wear of Diamond Like Carbon (DLC) Coatings -A Review” Recent Patents on Mechanical Engineering, Vol. 4, No. 1, pp. 55-78, (2011). Publisher: Bentham Science Publishers, Ltd., USA. Indexed in: SCOPUS
 47. Chowdhury M.A., **Nuruzzaman, D.M.**, Khalil M.K., Rahman M.L., “Variation of Thin Film Deposition Rate on SS 314 with the Variation of Gas Flow Rate using CVD” Industrial Lubrication and Tribology, Vol. 63, No. 6, pp. 433-439, (2011) Publisher: Emerald Group Publishing Ltd., UK. Indexed in: Thomson/ISI
 48. Chowdhury M.A., **Nuruzzaman, D.M.**, Rahman M.L., “Influence of External Horizontal Vibration on the Coefficient of Friction of Aluminum Sliding against Stainless Steel” Industrial Lubrication and Tribology, Vol. 63, No. 3, pp. 152-157, (2011) Publisher: Emerald Group Publishing Ltd., UK. Indexed in: Thomson/ISI
 49. Chowdhury M.A., Khalil M.K., **Nuruzzaman, D.M.**, Rahman M.L., “The Effect of Sliding Speed and Normal Load on Friction and Wear Property of Aluminum”

- International Journal of Mechanical & Mechatronics Engineering, Vol. 11, No. 1, pp 53-57, (2011) Publisher: IJENS, Pakistan. Indexed in: SCOPUS
50. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., Chowdhury, M.A., “Experimental Study on Durability and Tribological Properties of HVOF Sprayed WC Cermet Coatings” Journal of Advanced Research in Mechanical Engineering, Vol. 1, No. 4, pp. 203-209, (2010) Publisher: HyperSciences Publisher, Tunisia. Indexed in: DOAJ
 51. **Nuruzzaman, D.M.**, Khalil M.K., Chowdhury M.A., Rahman M.L., “Study on Pressure Distribution and Load Capacity of a Journal Bearing Using Finite Element Method and Analytical Method” International Journal of Mechanical & Mechatronics Engineering, Vol. 10, No. 5, pp 1-8, (2010) Publisher: IJENS, Pakistan. Indexed in: SCOPUS
 52. Chowdhury M.A., **Nuruzzaman, D.M.**, Rahman M.L., “Variation of Friction Coefficient of Copper with Sliding Velocity and Relative Humidity” Journal of Advanced Research in Mechanical Engineering, Vol. 1, No. 3, pp. 142-146, (2010) Publisher: HyperSciences Publisher, Tunisia. Indexed in: DOAJ, Google Scholar
 53. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “Effect of Substrate Surface Finish on Tribological Performance and Surface Topography of Hi-HVOF Sprayed WC-Cr-Ni Cermet Coating” Indian Journal of Tribology, Vol. 4, No. 1, pp. 32-37, (2009) Publisher: Tribology Society of India
 54. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., Chowdhury, M.A., “Rolling Contact Fatigue Life of Thermally Sprayed WC Cermet Coatings –A Review” Recent Patents on Mechanical Engineering, Vol. 2, No. 2, pp. 115-129, (2009) Publisher: Bentham Science Publishers, Ltd., USA. Indexed in: SCOPUS
 55. Chowdhury M.A., **Nuruzzaman, D.M.**, Rahman M.L., “Erosive Wear Behavior of Composite and Polymer Materials - A Review” Recent Patents on Mechanical Engineering, Vol. 2, No. 2, pp. 144-153, (2009) Publisher: Bentham Science Publishers, Ltd., USA. Indexed in: SCOPUS
 56. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “Experimental Investigation on Rolling-Sliding Contact Properties of WC Cermet Coatings” Daffodil International University Journal of Science and Technology (An International Journal), Vol. 4, No. 1, pp. 50-56, {2009}. Publisher: Daffodil International University, Bangladesh. Indexed in: Scientific Commons
 57. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “Tribological Properties of Thermally Sprayed WC Cermet Coating under Extreme Operating Conditions” Journal of Mechanical Engineering, Vol. 39, pp. 13-17, (2008) Publisher: The Institution of Engineers, Bangladesh. Indexed in: Scientific Commons
 58. Chowdhury, M.A., **Nuruzzaman, D.M.**, Rahaman, M.L., “Tribological Behavior of Composite Materials –A Review”, Recent Patents on Mechanical Engineering, Vol. 1, No. 2, pp. 123-128, (2008) Publisher: Bentham Science Publishers, Ltd., USA. Indexed in: SCOPUS
 59. **Nuruzzaman, D.M.**, Sheikh, M.A.A., “EHL Oil Film Thickness under Rolling-Sliding Contact” Journal of Mechanical Engineering, Vol. 38, pp. 58-60, (2007) Publisher: The Institution of Engineers, Bangladesh. Indexed in: Scientific Commons
 60. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “Characteristics of Thermally Sprayed WC Cermet Coating under Lubricated Rolling with Sliding Contact” Journal of Mechanical Engineering, Vol. 37, pp. 18-23, (2007) Publisher: The Institution of Engineers, Bangladesh. Indexed in: Scientific Commons
 61. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., Ali, M.Y., “Durability and Tribological Properties of Thermally Sprayed WC Cermet Coating under Lubricated Rolling-Sliding Contact” IIUM Engineering Journal, Vol. 8, No. 1, pp. 49-62, (2007). Publisher: IIUM, Malaysia. Indexed in: Google Scholar

62. Nakajima, A., **Nuruzzaman, D.M.**, Mawatari, T., “Influence of Spraying Process and Coating Thickness on Durability of WC Cermet Coating” *Journal of Mechanical Engineering*, Vol. 37, pp. 58-61, (2007) Publisher: The Institution of Engineers, Bangladesh. Indexed in: Scientific Commons
63. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “Durability and Tribological Properties of Thermally Sprayed WC Cermet Coating in Full Film and Partial EHL Contacts” *Journal of Mechanical Engineering*, Vol. 36, pp. 38-43, (2006) Publisher: The Institution of Engineers, Bangladesh. Indexed in: Scientific Commons
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Peer Reviewed Conference Papers/Presentations/Abstracts/Synopses

68. **Nuruzzaman, D.M.**, Chowdhury, M.A., Rahaman, M.L. and Oumer, A.N., “Influence of normal loads and sliding velocities on friction properties of engineering plastics sliding against rough counterfaces” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015, Kuala Lumpur, Malaysia.
69. Chowdhury, M.A. and **Nuruzzaman, D.M.**, “Investigation of thin film deposition on stainless steel 304 substrates under different operating conditions” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015, Kuala Lumpur, Malaysia.
70. Debnath, U.K., Chowdhury, M.A. and **Nuruzzaman, D.M.**, “Erosive wear characteristics of multi-fiber reinforced polyester under different operating conditions” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015, Kuala Lumpur, Malaysia.
71. **Nuruzzaman, D.M.**, Asif Iqbal A.K.M., Oumer, A.N., Ismail, N.M. and Basri, S., “Experimental investigation on the mechanical properties of glass fiber reinforced nylon” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015,

Kuala Lumpur, Malaysia.

72. **Nuruzzaman, D.M.** and Kamaruzaman, F.F.B., “Processing and mechanical properties of aluminium-silicon carbide metal matrix composites” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015, Kuala Lumpur, Malaysia.
73. **Nuruzzaman, D.M.**, Kusaseh, N., Basri, S., Oumer, A.N. and Hamedon, Z., “Modeling and flow analysis of pure nylon polymer for injection molding process” 2nd International Manufacturing Engineering Conference and 3rd Asia-Pacific Conference on Manufacturing Systems (iMEC-APCOMS 2015), 12-14 November, 2015, Kuala Lumpur, Malaysia.
74. Oumer, A. N., Ibrahim, A. A., **Nuruzzaman, D. M.** and Yusuf, K., “Simulation on Effect of Flow Induced Fiber Orientation on the Mechanical Properties of Fiber Reinforced Composites” In: Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2015, 11-13 October 2015, Johor Bahru, Johor, Malaysia.
75. Chowdhury, M.A., **Nuruzzaman, D.M.**, Roy, B.K, Samad, S., Sarker, R., Rezwan, A.H.M., “Experimental Investigation of Friction Coefficient and Wear Rate of Composite Materials Sliding against Smooth and Rough Mild Steel Counterfaces” 13th International Conference on Tribology (SERBIATRIB '13) pp. 65-74.
76. Chowdhury, M.A, **Nuruzzaman, D.M.**, Rahaman, M.L., “Frictional Characteristics of Steel Materials Sliding against Mild Steel” 1st International Manufacturing Engineering Conference 2013 (iMEC2013).
77. Rahaman, M.L., Chowdhury, M.A, **Nuruzzaman, D.M.**, “Experimental Investigation on Friction Coefficient of Engineering Polymers Sliding against Different Counterface Materials” 1st International Manufacturing Engineering Conference 2013 (iMEC2013).
78. Chowdhury, M.A, **Nuruzzaman, D.M.**, Roy, B. K., Nandee, R., “Friction Coefficient of Copper Mating with Smooth and Rough Mild Steel Counterfaces” International Conference on Mechanical, Industrial and Materials Engineering 2013 (ICMIME2013), 1-3 November, 2013, RUET, Rajshahi, Bangladesh.
79. **Nuruzzaman, D.M.**, Chowdhury, M.A., Nandee, R, Debnath, B., “Experimental Study of Friction Coefficient of Copper Sliding against Mild Steel” 6th International Mechanical Engineering Conference & 14th Annual Paper Meet (6IMEC & 14APM, 2012) IMEC&APM-MS-15, pp. 1-5. Organiser: Mechanical Engineering Division, The Institution of Engineers, Bangladesh (IEB).
80. **Nuruzzaman, D.M.**, Chowdhury, M.A., “Friction Coefficient of Polymer and Composite Materials Sliding against Stainless Steel” International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2012) Organiser: International Islamic University Malaysia (IIUM).
81. Chowdhury, M.A., **Nuruzzaman, D.M.**, “Deposition on SS 316 at Different Gas Flow Rates using Thermal CVD” International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2012) Organiser: International Islamic University Malaysia (IIUM).
82. Chowdhury M.A., **Nuruzzaman D.M.**, Rahman M.L, Nandee, R, Debnath, B., “Effect of Normal Load and Sliding Velocity on Friction Coefficient and Wear Rate of Gun Metal” 9th International Conference on Mechanical Engineering 2011, (ICME'2011), pp 1-5, Dhaka, Bangladesh.
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- Deposition Rate on Carbon Steel with the Variation of Gas Flow Rate Using CVD” Proceedings of the International Conference on Mechanical, Industrial and Energy Engineering 2010 (ICMIEE’ 2010), pp 1-6, (2010) Khulna, Bangladesh.
85. Chowdhury, M.A, **Nuruzzaman, D.M.**, Khalil, M.K, Rahaman, M.L., “Influence of Sliding Speed and Normal Load on the Coefficient of Friction and Wear Rate of Aluminum Sliding against Stainless Steel” Proceedings of the International Conference on Mechanical, Industrial and Energy Engineering 2010 (ICMIEE’ 2010), pp 1-5, (2010) Khulna, Bangladesh.
 86. Chowdhury, M.A, **Nuruzzaman, D.M.**, Rahaman, M.L., “Effect of Sliding Velocity and Relative Humidity on Friction Coefficient of Copper” Proceedings of the 3rd International Conference on Structure, Processing and Properties of Materials 2010 (SPPM’ 2010), pp 1-5, (2010) Dhaka, Bangladesh.
 87. Chowdhury, M.A, **Nuruzzaman, D.M.**, Rahaman, M.L., Islam, M.S, “The Effect of Gas Flow Rate on Deposition Rate Using CVD” Proceedings of the 8th International Conference on Mechanical Engineering 2009, (ICME’ 2009), pp. 1-6, (2009) Dhaka, Bangladesh.
 88. **Nuruzzaman, D.M.**, Chowdhury, M.A., Rahaman, M.L., “Variation of Friction Coefficient with Duration of Rubbing and Normal Load for Different Materials” Proceedings of the 4th BSME-ASME International Conference on Thermal Engineering, (BSME-ASME 2008), pp. 814-819, (2008) Dhaka, Bangladesh.
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 91. Nakajima, A., **Nuruzzaman, D.M.**, Mawatari, T., “Influence of Substrate Surface Finish on Tribological Performance and Surface Topography of Hi-HVOF Sprayed WC-Cr-Ni Cermet Coating” Proceedings of the 7th International Conference on Mechanical Engineering 2007, (ICME’2007), pp. 1-6, (2007) Dhaka, Bangladesh.
 92. **Nuruzzaman, D.M.**, Nakajima, A., Mawatari, T., “A New Approach to Application of Thermally Sprayed WC Cermet Coating on the Steel Substrate” Proceedings of the Mechanical Engineering Conference (MEC) and 11th Annual Paper Meet (APM) 2006, pp. 92-97, (2006) Mechanical Engineering Division, The Institution of Engineers, Bangladesh (IEB).
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 95. Nakajima, A., Mawatari, T., **Nuruzzaman, D.M.**, Yoshida, H., “Effect of Substrate Surface Finish on Durability of Thermally Sprayed WC Cermet Coating under Partial Conference 2004, pp. 349-350 (in Japanese), (2004) Japan.
 96. Nakajima, A., Mawatari, T., **Nuruzzaman, D.M.**, Yoshida, H., “Effect of Substrate Surface Finish and Substrate Hardness on Durability of Thermally Sprayed WC Cermet

Coating under Rolling/Sliding Contact” Proceedings of Japanese Society of Tribologists (JAST) Conference 2004, pp. 125-126 (in Japanese), (2004) Japan.

97. **Nuruzzaman, D.M.**, Sapuan, S.M , Basri, S., “Finite Element Modeling of High Speed Journal Bearing Behaviour” Proceedings of World Engineering Congress 1999, (WEC’99)-Mechanical and Manufacturing Engineering Conference, pp. 125-130, (1999) Kuala-Lumpur, Malaysia.
98. **Nuruzzaman, D.M.**, Sapuan, S.M , Basri, S., Usmani, M.A.W., “Comparative Study Between Finite Element Method and Analytical Method of a High Speed Cylindrical Bore Journal Bearing Behaviour” Proceedings of World Engineering Congress 1999, (WEC’99)-Mechanical and Manufacturing Engineering Conference, pp. 101-106, (1999) Kuala-Lumpur, Malaysia.

INTERNATIONAL JOURNALS SCIENTIFIC BOARD:

- Member, Editorial Advisory Board, Recent Patents on Mechanical Engineering, Bentham Science Publishers (BSP) Ltd., USA.
- Member, International Editorial Review Board, International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS), IGI Global, USA.
- Member, Editorial Board, IOSR Journal of Engineering (IOSRJEN), India.
- Member, International Editorial Honorary Board, International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies (ITJEMAST), Thailand.
- Member, Editorial Board, International Journal of Engineering Science and Technology (IJEST), India.
- Member, Editorial Board, Research Inventy: International Journal of Engineering and Science (IJES).
- Member, Editorial Board, International Journal of Mechanical Engineering (IJME), International Academy of Science, Engineering and Technology, USA.
- Member, Editorial Board, International Journal of Mechanical Engineering Research and Technology (IJMERT), Meghana Publications, India.
- Member, Editorial Advisory Board, Indian Journal of Scientific Research (IJSR), Global Academic Society, India.
- Member, Editorial Board, International Journal of Advances in Engineering and Technology (IJAET), India.
- Member, Editorial Board, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Transstellar Journal Publications and Research Consultancy (TJPRC), India.
- Member, Editors and Advisory Boards, Asian Transactions, Pakistan.
- Member, Editorial Board, International Journal of Mechanical Engineering and Robotics Research (IJMERR), India.
- Member, Editorial Review Board, American Journal of Materials Science, Scientific & Academic Publishing, USA.
- Member, Editorial Review Board, Science and Technology, Scientific & Academic Publishing, USA.

RESEARCH PROJECTS (POSTGRADUATE/UNDERGRADUATE LEVEL):

- “Novel Composites And High Temperature Alloys From Recycled Automotive Aluminium Scrap”, FRGS Grant, Member, July 2014 – June 2017 - Ongoing

- “Development of Aluminium Based Composites and High-Temperature Alloys from Recycled Automobile Scrap Alloy”, UMP Grant, Member, May 2014 – May 2016
- “Effects of Thermal Oxidation Parameters to the Efficiency of Zinc Oxide and Tin Dioxide as Anti-Reflective Coating in Silicon-Based Solar Cell”, RAGS Grant, Member, December 2015 – November 2017 - Ongoing
- “Design and Development of Thermoplastic Lid via Thermoforming Process”, UMP Grant, Member, November 2013 – May 2016
- “Fabrication and Properties of Functionally Graded Materials (FGMs)”, UMP grant, Leader, June 2013 – June 2015
- “Friction and Wear of Mild Steel Turned and Ground Surfaces Sliding against Stainless Steel under Different Operating Conditions”, Leader, January 2012 – December 2012
- “Tribological Properties of Thin Film Coatings Deposited by Thermal Chemical Vapor Deposition”, Leader, January 2012 – December 2012
- “Tribological Behavior of Polymer and Composite Materials Sliding against Mild Steel”, Leader, January 2012 – December 2012
- “Frictional Behavior of Metals and Alloys Sliding against Smooth and Rough Mild Steel Counterfaces”, Leader, January 2012 – December 2012
- “Experimental Investigation of Deposition Rates on Stainless Steel Substrates under Different Gas Flow Rates Using Thermal CVD”, Leader, January 2012 – Dec. 2012
- “Experimental Investigation of Friction and Wear Behavior of Different Steel Materials”, Leader, January 2010 – December 2011
- “Friction and Wear of Polymer and Composite Materials Sliding against Stainless Steel”, Leader, January 2011 – December 2011
- “Friction Coefficient and Wear Rate of Stainless Steel 304 Sliding against Mild Steel”, Leader, January 2011 – December 2011
- “Experimental Investigation of Deposition Rates on Smooth and Rough Mild Steel Substrates at Different Gas Flow Rate Conditions”, Leader, January 2011–Dec. 2011
- “Frictional Behavior of Aluminum Sliding against Different Pin Materials”, Leader, January 2010 – December 2010
- “Experimental Investigation of the Deposition Rates on Rough and Smooth SS 304 using Chemical Vapor Deposition”, Leader, January 2010 – December 2010
- “Experimental Investigation of Friction and Wear Properties of Polymer and Composite Materials under Different Normal Loads and Sliding Velocities”, Leader, January 2009– December 2009
- “Tribological Properties of Metals and Alloys under Different Loads and Sliding Velocities”, Leader, January 2009 – December 2009
- “Effect of Sliding Velocity and Normal Load on Friction and Wear Behavior of Different Materials”, Leader, January 2007 – December 2008
- “Tribological Properties of Different Materials under Different Operating Conditions”, Leader, January 2007- December 2007
- “Investigation of Elastohydrodynamic Lubrication (EHL) Regime under Rolling with Sliding Contact”, Leader, January 2006- December 2007
- “Investigation on Lubricant Film Parameter under Rolling with Sliding Contact”, Leader, January 2006- December 2006
- “Friction and Wear Properties of Metals and Alloys Sliding against Different Pin Materials”, Leader, January 2006- December 2006

SUPERVISION OF POSTGRADUATE STUDENTS:

Doctoral level:

- “High Efficiency Indium Oxide (IO) / Si Solar Cells Produced by Thermal Oxidation” by Nuraini Binti Abdullah, Faculty of Manufacturing Engineering, University Malaysia Pahang (UMP) – Co-Supervisor – Ongoing
- “Solid Particle Erosion Behavior of Composite Materials under Different Operating Conditions” by Uttam Kumar Debnath, Department of Mechanical Engineering, Dhaka University of Engineering and Technology, Gazipur, Bangladesh – Joint Supervisor (International Supervisor) - Ongoing

Master’s level:

- “Experimental Investigation of the Mechanical Properties of Nickel-Alumina Functionally Graded Materials” by Muhammad Ihsan Bin Abdul Latiff – Main Supervisor – Ongoing
- “Experimental Investigation of Sintering Behavior of Metal-Ceramic Graded Composite Materials” by Farah Fazira Binti Kamaruzaman – Main Supervisor – Ongoing
- “Investigations on Mechanical Properties of Glass Fiber Reinforced Polymer Composites under Different Operating Conditions” by Nurizzathanis Binti Mohammad Kusaseh – Main Supervisor – Ongoing
- “Experimental Study on Friction Coefficient of Different Materials” by Biswajit Debnath, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh - Main Supervisor - May 2011.
- “Frictional Behavior of Different Materials under Different Operating Conditions” by Rajib Nandee, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh - Co-Supervisor - May 2011.
- “The Effect of Sliding Velocity and Normal Load on Friction and Wear Behavior of Different Materials” by Mohammad Lutfar Rahaman, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh - Main Supervisor - July 2008.
- “Experimental Investigation of Thin Film Coating on Different Substrate Materials by Chemical Vapor Deposition Process” by Md. Sherajul Islam, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh - Co-Supervisor - December 2008.
- “Investigation of Elastohydrodynamic Lubrication (EHL) Regime under Rolling with Sliding Contact” by Md. Akkas Ali Sheikh, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Main Supervisor - December 2007.

Supervision of Undergraduate Projects:

Over 40 Bachelor of Engineering (Final Year) research projects supervised at the Faculty of Manufacturing Engineering, University Malaysia Pahang (during the period from year 2014 –To date) and at the Department of Mechanical Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh (during the period from year 2000 - 2002 and 2006 - 2012).

EXAMINATION OF POSTGRADUATE THESES:

Doctoral level:

- “Experimental Investigation and Multi-Objective Optimization for Aluminium Alloy (AA 6061 T6) Machining with Conventional and Nanofluid Minimum Quantity Lubrication” by Syeda Najiha Masood – Internal Examiner – June 2015

Master’s level:

- “Effect of Nano-Clay on Thermal and Mechanical Stability of Jute Composite for Structural Applications” by Md. Sazib Mollik, Kulliyah of Engineering, International Islamic University Malaysia – External Examiner – July 2015
- “Experimental Study on Frictional Behavior of Mild Steel Sliding against Smooth and Rough Stainless Steel Counterfaces” by Md. Azam Khan Chowdhury, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – External Examiner - May 2013.
- “Friction Coefficient and Wear Rate of Polymer and Composite Materials Sliding against Smooth Stainless Steel Counterface” by Kazi Nazrul Islam, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – External Examiner - May 2013.
- “An Experimental Investigation of Performance Improvement of a Household Refrigerator using Phase Change Material” by Md. Imran Hossen Khan, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - May 2011.
- “A Case Study on Dual Fuel Diesel Engine and its Development: Bangladesh Perspective” by Md. Anwar Hossain, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - March 2011.
- “Improvement in Grinding Two Commonly Used Steels by MQL Cooling” by Md. Anwar Hossain, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - December 2007.
- “Analysis of Heat Transfer from Discrete Heat Source in Vertical Channel” by Shameun Nahar, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - August 2007.
- “Linguistic Evaluation of Bangladeshi Coal: A Fuzzy Set-AHP Approach” by Binoy Krishna Biswas, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - August 2007.
- “A Genetic Algorithm Approach to Travelling Salesman Problem” by Md. Aminur Rahman, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh – Internal Examiner - July 2007.

CONSULTANCY / EXPERT OPINION:

- Worked with WINDSOR PLASTICS (BD) LTD. (Wal-Mart top hanger project), of Dhaka Export Processing Zone (DEPZ), Bangladesh, Expert Member- 2008.
- Worked with Bangladesh Agricultural Research Institute (BARI), for Supply, Installation, Testing and Commissioning of +4⁰C cold room equipment (Walk-in-cooler) and -20⁰C cold room equipment (Walk-in-freezer) including related works under Plant Genetic Resource Center (PGRC) Project, Expert Member: 2007-2008.

EFFORTS TO ENHANCE TEACHING AND RESEARCH EXCELLENCE:

- Joint research activities with Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh
- Established the state-of-the-art research laboratories/facilities at Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh.
- Design and implementation of up-to-date applications-oriented curricula
- Interaction with industry to promote collaboration with industry and university
- Interaction with peers to promote engineering technology/practice-oriented curricula
- Organized/arranged seminars to know the state-of-the-art research and developments

TEACHING INTERESTS:

- Machine Design
- Statics
- Dynamics
- Mechanics of Materials

REFERENCES

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