



Department of Leather Engineering
Khulna University of Engineering & Technology
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Dr. Md. Samsul Arefin

Assistant Professor

Research Area Research Areas: Footwear
Science & Technology

Biography

Welcome to my personal profile page. I am Md. Samsul Arefin and serving as an Assistant Professor at the Department of Leather Engineering (LE), Khulna University of Engineering and Technology (KUET), Khulna-9203. I am proud to be a member almost at the inception of the department. At present, Leather and Footwear sector is considered as the most emerging sector in Bangladesh after RMG. Government of Bangladesh emphasizes to establish the department realizing the potentiality of the sector in both in local and export market. It is the 2nd department of its kind in Bangladesh after University of Dhaka in this field to develop human resources and also to facilitate the growing sector. It's our challenge to develop human resources as well as to conduct research activities to cope up with new problems arising in the sector with new ideas and modern technologies. The page will let you know about my personal profile. You are most welcome to explore different sections of the profile. Thanks a lot for visiting.

Education

Doctor of Philosophy in Biomedical Engineering (Major: Biomechanics)

National Cheng Kung University, Taiwan (Sep 2019-April 2024)

Thesis Title: [Effect of Adjustable Shoe Configurations on Torsional Mechanical Properties and Performance of Sidestep Running Cuts](#)

B.Sc In Footwear Technology

Institute of Leather Engineering & Technology (ILET), University of Dhaka (Erstwhile Bangladesh College of Leather Technology, University of Dhaka), Bangladesh (July, 2003-2006) Achievement: 1st class 2nd in the Department.

Passing year 2006 (4th year Final Exam held in 2008 & result published in Sep, 2009)

Higher Secondary School Certificate (HSC)

Dhaka College, Bangladesh (2001-2002)

Secondary School Certificate (SSC)

Charkalia High School, Chandpur, Bangladesh (1998-2000) Achievement: Obtained 1st position in my school, exam centre & Matlab North Thana

Service Records

- **Assistant Provost**

Department/Section: Hall Office

Experience In Administrative Work at KUET From 01-01-1970 to 01-01-1970

Responsibility: Supervise of different works related to Hall Office, student accommodation, dining management, ensure their health and hygiene. Also arrangement of sports, cultural activities, national days and annual dinner.

- **Assistant Professor**

Department/Section: Leather Engineering

Khulna University Of Engineering & Technology (KUET) From 01-01-1970 to 01-01-1970

Responsibility: Teaching, Research & Student Supervise

- **Lecturer**

Department/Section: Leather Engineering

Khulna University Of Engineering & Technology (KUET) From 01-01-1970 to 01-01-1970

Responsibility: Teaching, Research & Student Supervise

- **Executive**

Department/Section: Merchandizing

Apex Footwear Ltd. From 01-01-1970 to 01-01-1970

Responsibility: Sales forecasting, Fashion & design sourcing, Sample development in coordination with Design Development

Team, Materials, design & colour selection & sourcing, Costing, Production Follow up, Product distribution to Outlet, Overall Sales Analysis & Future Sales Projection.

Research Interest

Research Areas: Footwear Science & Technology

Applications of research to design of all types of functional and purpose-built footwear

Biomechanics of human foot & footwear design

Influence of footwear and footwear design on human performance ; kinematics and kinetics of human movement

Footwear in prevention and treatment of diseases of lower extremity

In-shoe foot motion analysis

Simulation & Modelling : Footwear & Materials

Shoe properties and human perceptions

Publication

Books

Journals

2. Mondal, N. R. , Ahmed, M. M. and Rony, M. S. A. a. M. H. (December, 2016) , " Performance Analysis of Poly Vinyl Chloride Outsole Using FEA Method," **Journal of Applied Mechanics and Materials**, Scientific.net, vol 860 , no. ISSN:1662-7482, pp.146-151

1. Hashem, M. A., Arefin, M. S. and Ahmed, a. M. (October, 2014), " Estimation and Environmental Effect of Tannery Effluent from Wet Salted Goat Skin in Beam House Operations: Bangladesh Perspective," **International Journal of Environment**, BENJapan, volNo. 4 , no.No. 2, pp.39-45

Conference

10. Lamia, Q. F., Mondal, S. and Hashem, M. S. A. a. M. A. (26-27 December, 2016), "Sheep intestine catgut string could be used for footwear material," **International Conference on Mechanical, Industrial and Energy Engineering, ICMIEE 2016, KUET, Khulna, Bangladesh**, pp.PI-160326
9. Hasan, M. N., Limon, M. I. K. and Hasan, M. S. A. a. M. Z. (26-27, December, 2016), "Bond strengths analysis of polyurethane and polychloroprene adhesives for different upper and soling materials," **International Conference on Mechanical, Industrial and Energy Engineering, ICMIEE 2016, KUET, Khulna, Bangladesh**, pp.160202-2
8. Mondal, N. R., Ahmed, M. M. and Rony, M. S. A. a. M. H. (25-27 December, 2015.), "Performance Analysis of Poly Vinyl Chloride Outsole Using FEA Method," **1st International Conference on Materials and Manufacturing Engineering, ICMME 2015**, pp.68
7. Arefin, M. S. and Hashar, A. J. a. M. R. (18-20 December, 2015.), "CFD Analysis of Temperature Distribution and Thermal Comfort of Complete Footwear for Hot and Cold Country," **11th International Conference on Mechanical Engineering, ICME 2015**
6. Mondal, N. R., Ahmed, M. M. and Rony, M. S. A. a. M. H. (11-13 December, 2015.), "A Finite Element Analysis to Design and Simulation of Effective Shank Piece in Ladies High Heel Shoe," **International Conference on Mechanical Industrial and Materials Engineering, ICMIME2015**, pp.115
5. Hasan, M. I. and Arefin, T. R. a. M. S. (11-13 December, 2015.), "An Analysis on the Sustainability of Different Outsole Materials During Shoe Flexing Using FEA Method," **International Conference on Mechanical, Industrial and Materials Engineering, ICMIME 2015**, pp.106
4. Sayeed, M. A., Rony, S. M. A. and Uddin, M. S. A. a. M. B. (11-13 December, 2015.), "Investigation of Bodyweight Distribution on Metatarsophalangeal Joint of Human Foot for Ladies High Heel Footwear," **International Conference on Mechanical, Industrial and Materials Engineering, ICMIME 2015**, pp.114
3. Arefin, M. S. and Jor, M. R. H. a. A. (11-13 December, 2015), "Temperature Distribution and Thermal Comfort Analysis of a Shoe for Summer and Winter Season Using CFD Technique: Bangladesh Perspective," **International Conference on Mechanical, Industrial and Materials Engineering, ICMIME 2015**, pp.124
2. Arefin, M. S., Mondal, N. R. and Hashem, M. M. A. a. M. A. (26-29 November, 2015), "An emerging approach in Footwear Industry to introduce Finite Element Analysis Method for Physical Properties of the Outsole," **International Conference on Mechanical Engineering and Renewable Energy, ICMERE 2015**, pp.72
1. Hashem*1, M. A. H., Ahmed2, M. and Arefin1, M. S. (01-02 February, 2013.), "Estimation of solid and liquid wastes generated in beamhouse operations from the wet salted goat skin," **International Conference on Mechanical, Industrial and Energy Engineering, ICMIEE 2012**, pp.MIE112-113