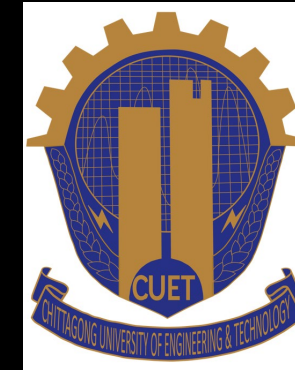


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IEOM Society's mission is to foster critical thinking, innovation, and knowledge dissemination of Industrial Engineering (IE) and Operations Management (OM) among diversified people globally, especially in emerging countries.



Values:

- Globalization, Diversity, and Inclusion
- Innovative and Entrepreneurial Thinking
- Student Empowerment and Mentoring
- Professional Development and Lifelong Learning
- Building Partnerships among Industry, Academia, and Government
- Sustainability and Community Development



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- IEOM Journal - IJIEOM
- Forums:
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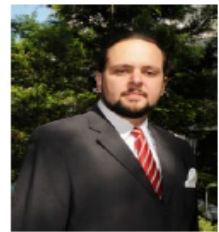
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Professor School of Engineering and Technology Universidad de Monterrey Nuevo León, Mexico



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2018 – Bandung
2019 – Bangkok
2020 – Dubai
2021 – Singapore
2022 – Istanbul
2023 – Manila
2024 – Dubai

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2015 – Orlando
2016 – Detroit
2018 – Washington, DC
2019 – Toronto
2020 - Detroit
2021 – Monterrey
2022 – Orlando
2023 – Houston
2024 – Washington DC

European

2017 – UK
2018 – Paris
2019 – Czech Republic
2021 – Rome, Italy
2022 – Rome, Italy
2023 – Lisbon
2024 – Munich, Germany

Asia Pacific Conference

2021 – Harbin, China
2021 – Surakarta, Indonesia
2022 – Jahor Baru, Malaysia
2023 – Vietnam
2024 - Tokyo

South American

2017 – Bogota
2019 – Costa Rica
2021 – Sao Paulo, Brazil
2022 – Paraguay
2023 – Peru
2024 - Bogota

African Conference

2019 - Pretoria
2020 – Harare, Zimbabwe
2022 – Nigeria
2023 - Zambia
2024 – Pretoria, South Africa

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| 3. UNSW-Canberra | 76. Osmania University – The University College of Eng | 146. Universidad Ricardo Palma (URP) |
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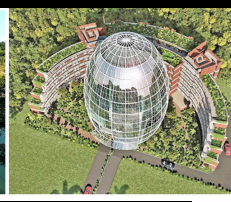


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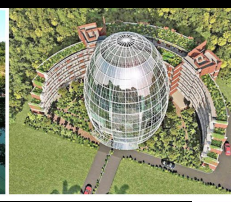
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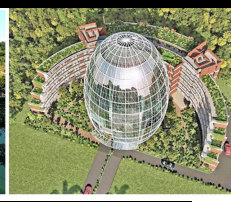
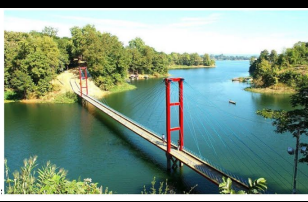


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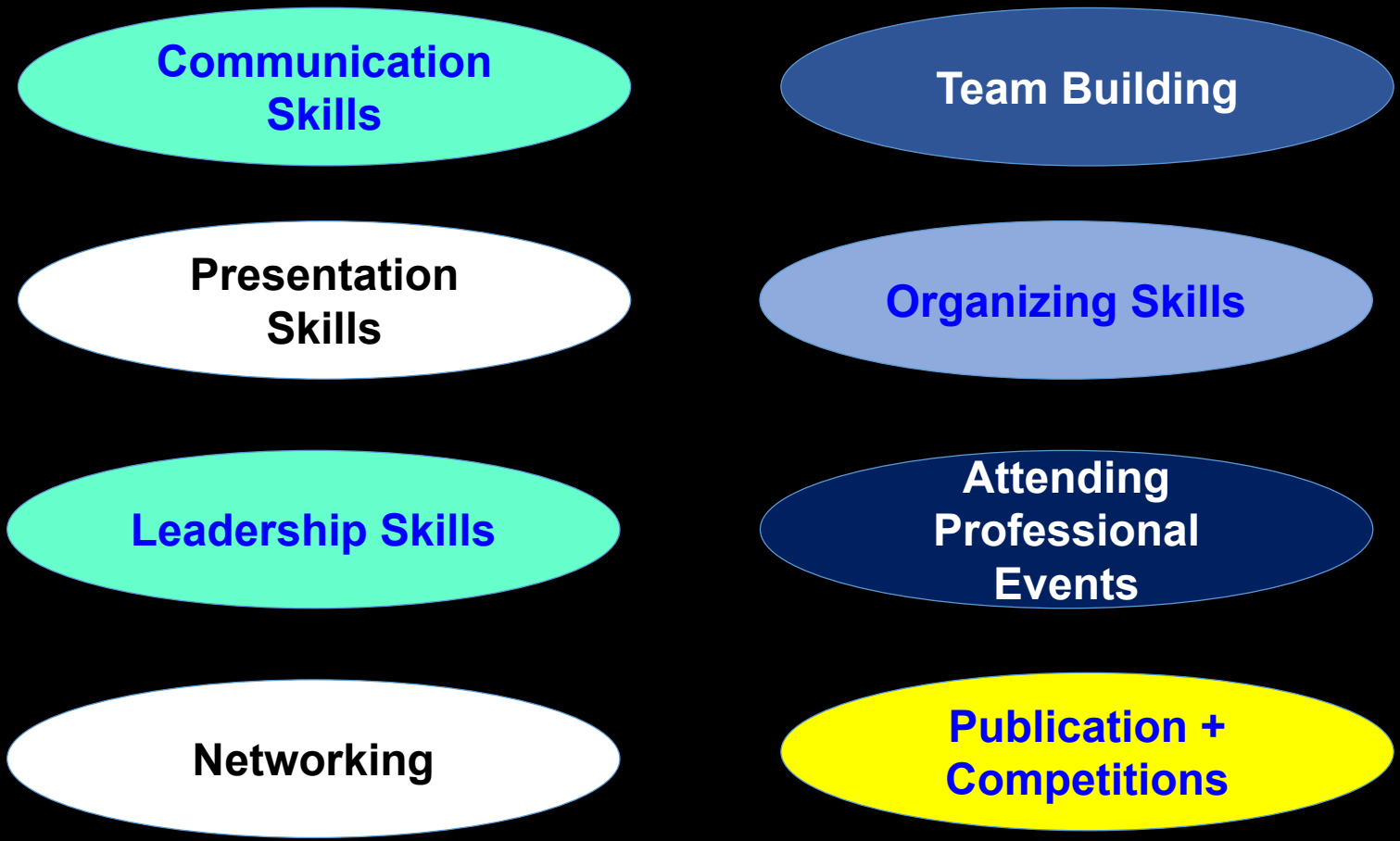
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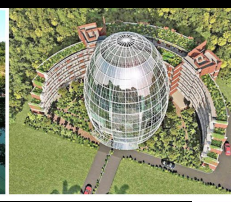
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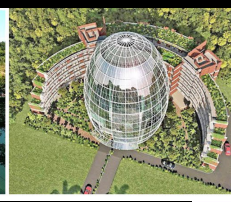
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Ahsanullah University of Science and Technology-AUST



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School of Statistics and Applied Mathematics

Anhui University of Finance and Economics

Anhui, 233030, China



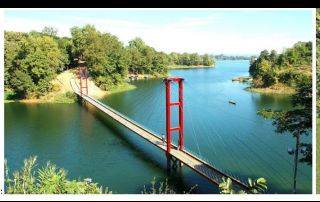
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Department of Mechanical Engineering

Chittagong University of Engineering & Technology

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School of Economics and Management
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Department of Industrial and Systems Engineering
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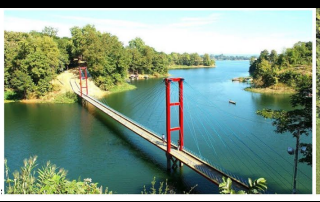
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Senior Assistant Professor & Head
Department of Industrial & Production Engineering
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Outstanding Academic Leadership Award

Md. Raihan ul Masood
Associate Professor & Head
Computer Science & Engineering
Northern University Bangladesh
Dhaka, Bangladesh



Outstanding Academic Leadership Award

Dr. Muhammad Ahasan Habib
Associate Professor & Head of the Dept.
Industrial and Production Engineering (IPE)
Bangladesh Army University of Science and
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Dhaka, Bangladesh



Outstanding Professor in Business Management

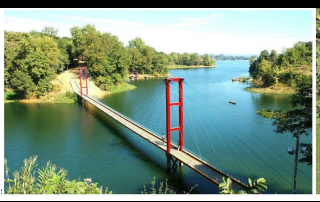
Prof. Md. Mamun Habib, Ph.D.

Professor

School of Business & Entrepreneurship (SBE)

Independent University

Dhaka, Bangladesh



Outstanding Professor in Renewable Energy

Dr. Md. Quamrul Islam
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Ph.D. (VUB,Belgium), M.Sc. Engg (BUET), B.Sc. Engg (BUET)

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School of Economics and Management
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Outstanding Professor in AI

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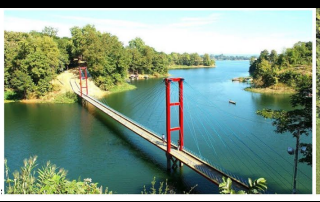
Fellow of IEEE, IET, BCS

Professor

Department of Computer Science

University of Texas at Dallas (UT Dallas)

Dallas, Texas, USA



Outstanding Professor in Sustainable Manufacturing

Dr. Erwin Rauch
Professor

Endowed Chair for Sustainable Manufacturing
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Woman in Industry and Academy Award

Seema Chowdhury, CLSSMBB, PCAS, CLP
Director @ PRAN-RFL Group
Dhaka, Bangladesh



Lean Six Sigma Award

Dave Harry

Retired U.S. Naval Aviator

CEO of Process Whisperer® Consultants LLC,
Greeneville, Tennessee, USA



Lean Six Sigma Award

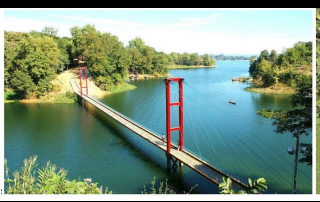
Muhammad Mamun Mia
General Manager
Sinobangla Industries Limited
Dhaka, Bangladesh



Lean Six Sigma Award

Fahrial Alam

Senior Assistant Director at Walton Hi-Tech PLC
CEO at Gyre Engineering
Dhaka, Bangladesh



Industry 4.0 Award

Quazi Nazmul Hossain

Manufacturing Technology and Digital Transformation Specialist

Former General Manager, Group HoIT FCI Group and Apex Footwear Limited

Dhaka, Bangladesh



6th Industrial Engineering and
Operations Management
Bangladesh Conference
Dhaka, Bangladesh, Dec. 26-28, 2023
Venue: Krishibid Institution, KIB, Farmgate



Industrial Engineering and
Operations Management
Society International



Industry Best Practice Award

Engr. Md Arifur Rahman

Deputy Director, Head of Supply Chain & CAPEX
Project (Green Field Samsung Mobile, Fridge, TV,
WM// Hyundai Car Manufacturing Factory)

Fair Group (Samsung / Hyundai Manufacturer)

Dhaka, Bangladesh



Industry Solutions Award

A S M Touhidul Islam M.Sc. (Research)

General Manager

**Department of Production A Reputed Garments
Manufacturing Company Adamjee EPZ**

Narayangonj, Dhaka, Bangladesh



Industry Solutions Award

S.M. Tofayel Ahmad

System Analyst (Joint Director)

Information & Communication Technology Department

Bangladesh Bank (The Central Bank of Bangladesh)

Head Office, 29th Floor, Annex-2 Building

Motijheel, Dhaka-1000, Bangladesh



Global Engineering Education Award

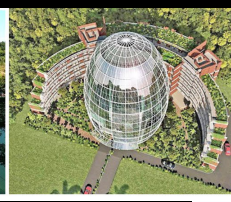
Dr. Abu Taher

Associate Professor and Chairman

Department of Industrial & Production Engineering

European University of Bangladesh

Mirpur-1, Dhaka, Bangladesh



Global Engineering Education Award

Fatima Jahara
Senior Assessment Developer
Workera
Bangladesh



Global Business Management Education Award

Dr. Mohammad Saif Noman Khan
Associate Professor
Institute of Business Administration (IBA)
University of Dhaka
Bangladesh



Global Business Management Award

Md Touhidur Rahman Rad
Chief Business Officer

Walton Digi-Tech Industries Ltd. (Computer, IT & E-bike)
Dhaka, Bangladesh



Global Artificial Intelligence and Machine Learning Award

Dr. Tahsina Farah Sanam

Associate Professor in the Institute of Appropriate
Technology

Bangladesh University of Engineering and Technology
(BUET)

Dhaka, Bangladesh



Global Artificial Intelligence and Machine Learning Award

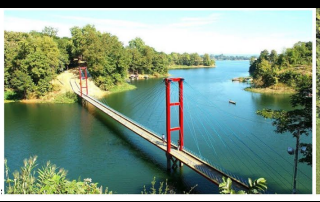
Prof. Khondaker A. Mamun

Professor of Data Science and Digital Health

Director of AIMS Lab – Advanced Intelligent
Multidisciplinary Systems Lab

United International University (UIU)

Dhaka, Bangladesh



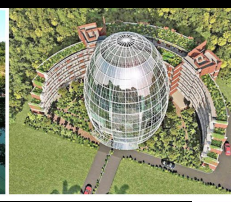
Global Project Management Award

Md Fahad Chowdhury
Head of Customer Operations
Banglalink
Dhaka, Bangladesh



Global Supply Chain and Logistics Award

Mohammed Zia Uddin CSCM, FCILT
Supply Director, Bangladesh- Sri Lanka Cluster
Reckitt
Dhaka, Bangladesh



Entrepreneurship Award

Masum Kamal

President

SK Machinery International

Dhaka, Bangladesh



Sponsors and Partners



Innovation and Entrepreneurship Award

Hasnaeen Rizvi Rahman
Founder & CEO at Astha IT
Serial Entrepreneur
TEDx Speaker, Venture Builder
Startup Advisor, Technologist



Outstanding Young Professor Award

Dr. A. B. M. Mainul Bari
Assistant Professor
Department of IPE, BUET



Honorary Distinguished Conference Leadership Award

Prof. Dr. Jamal Uddin Ahamed

Head, Department of Mechatronics and Industrial Engineering
Chittagong University of Engineering & Technology (CUET)
Pahartoli, Raozan, Chittagong, Bangladesh



Outstanding Conference Leadership Award

Md. Monowar Wadud Hridoy, Assistant Professor, MIE, CUET
Sanjeeb Roy, Assistant Proessor, Dept. of MIE, CUET
Md. Miraiz Hossain, Lecturer, MIE, CUET
S.M. Fahim Faisal, Lecturer, MIE, CUET
Tasnuva Jahan Nuva, Lecturer, MIE, CUET
Kazi Naimur Rahman, Lecturer, Dept. of MIE
Tasmia Binte Hai, Lecturer, Dept. of MIE, CUET



Outstanding Leadership Award

Md. Aqib Islam, MS
Director of IEOM Bangladesh Operations



Sponsors and Partners



Competition Winners



Undergraduate Student Paper Competition Sponsored by Siemens

First Place

ID 53 Waste Reduction with Lean Manufacturing on Garment Production Line of PT XYZ

Aifa Raviva Surdadi, Ahmad, and Mohammad Agung
Saryatmo, Department of Industrial Engineering,
Universitas Tarumanagara, Jakarta, Indonesia



Undergraduate Student Paper Competition Sponsored by Siemens

Second Place

ID 129 Numerical Investigation of Flax/Bamboo Fiber Reinforced Hybrid Composites under Tensile Load
Durjoy Roy, Md Tahmid Hasan, Md Shariful Islam and Md Arifuzzaman, Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, Bangladesh



Undergraduate Student Paper Competition Sponsored by Siemens

Second Place

ID 88 Drone Distribution Model for Emergency Medicine Distribution to Reduce Delivery Time and Costs: Case of the Peruvian Health Sector
David Kevin Jenss Senador and Pavel Alexander Flores Caycho, Facultad de Ingeniería, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Carlos-Augusto Lizárraga-Portugal, Research Professors, Facultad de Ingeniería, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

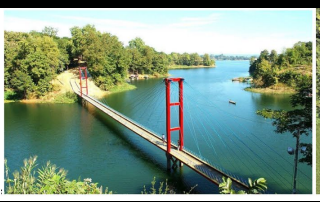


Undergraduate Student Paper Competition Sponsored by Siemens

Third Place

ID 44 Application of Six Sigma Method on Improving the Quality of Plastic Sacks

Nandita Priya, Mohammad Agung Saryatmo and Lithrone Laricha
Salomon, Department of Industrial Engineering, Tarumanagara
University,
Jakarta, Indonesia



Undergraduate Student Paper Competition Sponsored by Siemens

Third Place

ID 131 Optimizing Thermal Insulation Board: A Study on Physical and Mechanical Properties of Sandwich Board Made of Perlite, Polystyrene, and Formica Sheet

Mehedhi Hasan and G M Ismail Hossain, Department of Mechanical Engineering, Sonargaon University (SU), Dhaka

Md Aasef Azhar Khan, Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna

Md Ahatashamul Haque Khan Shuvo, Department of Mechanical Engineering, Sonargaon University (SU), Dhaka

Torikul Islam, Department of Biomedical Engineering (BME), New Jersey Institute of Technology, Newark, NJ, USA

Md Tahmid Hasan, Department of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna



Undergraduate Research Competition Sponsored by Daikin Applied

First Place

ID 155 Design, Fabrication and Performance Analysis of An Ergonomically Designed Self-Cleaning Dining Table
Syed Md Naieem, Samina Rahman Shuchi, Farhan Rahat Shaiket, Parsha Mohsina Promi, Jahanara Akter Trina and Adib Bin Rashid,
Department of Industrial and Production Engineering, Military Institute of Science and Technology (MIST), Dhaka-1216, Bangladesh



Undergraduate Research Competition Sponsored by Daikin Applied

Second Place

**ID 166 Efficiency Improvement in Wood Beam Line Process using
Lean Manufacturing Tools in Peruvian Sawmill Industry**
José Manuel López-Acosta, Faculty of Engineering, Industrial Engineering
Career, University of Lima, Peru
Juan Carlos Quiroz-Flores, Research Professor, Faculty of Engineering,
Industrial Engineering Career, University of Lima, Peru



Undergraduate Research Competition Sponsored by Daikin Applied

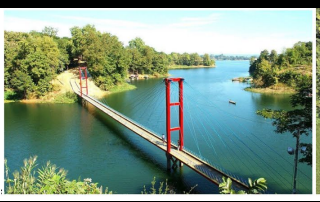
Third Place

ID 231 Forecasting Sales of Honda Motorcycles Using the Moving Average and Exponential Smoothing

Muhammad Deni Malik, Informatics Department, Faculty of Science and Informatics,
University Jenderal Achmad Yani, Cimahi, Indonesia

Tacbir Hendro Pudjiantoro, Informatics Department, Faculty of Science and
Informatics, University Jenderal Achmad Yani, Cimahi, Indonesia

Ade Kania Ningsih, Informatics Department, Faculty of Science and Informatics,
University Jenderal Achmad Yani, Cimahi, Indonesia



Undergraduate Research Competition Sponsored by Daikin Applied

Third Place

ID 251 Real-Time Fabric Intelligence: A Modern Fusion of Machine Learning, Computer Vision, and IoT in Woven Textile Analysis

Md. Sadman Sakib, Department of Industrial and
Production Engineering, Bangladesh University of Textiles
(BUTEX), Tejgaon, Dhaka, Bangladesh



Graduate Student Paper Competition sponsored by Eaton

First Place

ID 35 Sustainable Supplier Selection for Agro-Food Industry of an Emerging Economy: A Fuzzy Topsis Approach

Mohaddis Hossain and Fatin Ihsan Hredoy, Department of
Mechatronics and Industrial Engineering, Chittagong University
of Engineering and Technology (CUET), Chittagong, Bangladesh



Graduate Student Paper Competition sponsored by Eaton

Second Place

ID 34 Auxiliary Variables and Two-Step Iterative Algorithms in Object Detection: A Novel Approach

Md. Habibur Rahman, Yeasin Reza, Kawsar Alam Tanvir, Salma Akter and Afsana Akter, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh



Graduate Student Paper Competition sponsored by Eaton

Third Place

ID 232 Experimental Investigation of Mechanical Properties of Various Natural Fiber-Reinforced Hybrid Composites

Md. Khakan Hasan Mim, Department of Mechanical Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh

Md. Anash Mia, Department of Mechanical Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh

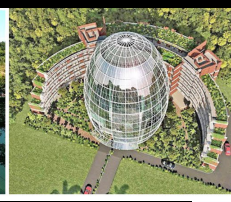
Pranto Karua, Assistant Professor, Department of Mechanical Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh



First Place

ID 81 Effect of Alkali Treatment on Mechanical Properties of Non-woven Jute Fiber Reinforced Epoxy Composite

RajuAhammad, Md Arifuzzaman and Md Shariful Isalm, Faculty of Mechanical Engineering, Khulna University of Engineering & Technology, Khulna-9203, Bangladesh



Second Place

ID 23 Analysis of personal relationships from a sentimental standpoint and support for mental health

Dr. Shubhangi D C, Department of computer science, Vishveshwaraya Technological University CPGS Kalaburagi, Karnataka, India

Dr. Baswaraj Gadgay, Department of Electronics and Communication, Vishveshwaraya Technological University CPGS Kaalburagi, Karnataka, India

Uzma Tarannum, Department of computer science, Vishveshwaraya Technological University CPGS Kalaburagi, Karnataka, India



Senior Design Project Competition sponsored by Tooling Tech Group

First Place

ID 195 Innovation of a Flame Freeze Connector Tool For Extinguishing Fire In Forest Fires Using The VDI 2221 Method

Alyssa Felicia Wijaya Yakup, Student of Industrial Engineering, Faculty of
Engineering, Tarumanagara University, Jakarta, Indonesia

Frans Jusuf Daywin, Lecturer in Industrial Engineering, Faculty of
Engineering, Tarumanagara University, Jakarta, Indonesia

Didi Widya Utama, Lecturer in Mechanical Engineering, Faculty of
Engineering, Tarumanagara University, Jakarta, Indonesia



Senior Design Project Competition sponsored by Tooling Tech Group

Second Place

ID 121 Designing Orthopaedic Seat Cushion

Ambrosius Milano, Lamto Widodo and Lina Gozali, Industrial
Engineering Study Program Tarumanagara University, Indonesia



Human Factors and Ergonomics Competition sponsored by CINTAS



First Place

ID 27 An Ergonomic Analysis of Working Posture of Selected Brick Kiln Workers Using Rapid Upper Limb Assessment (RULA) and Rapid Entire Body Assessment (REBA) Method

Mohammad Iqbal, Md. Golam Mahmood and Md. Rashedul Islam,
Department of Industrial and Production Engineering, Shahjalal University
of Science and Technology, Sylhet, Bangladesh

Human Factors and Ergonomics Competition sponsored by CINTAS



Second Place

ID 150 Ergo Synergy: Modeling the Interplay of Environmental Ergonomic Factor, Workstation Design, and Physical Comfort on Productivity through Structural Equation Modeling

Hazel V. Agustin, Dr. Ryan Jeffrey Curbano and Dr. James Louie Meneses, Graduate School, Lyceum of the Philippines University, Batangas City, Philippines



Human Factors and Ergonomics Competition sponsored by CINTAS



Third Place

ID 249 Advancing Industrial Sustainability: A Multifunctional Ergonomic Sewing Machine Table for Enhanced Productivity and Worker Well-being

Md. Sadman Sakib, Department of Industrial and Production
Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon,
Dhaka-1205, Bangladesh



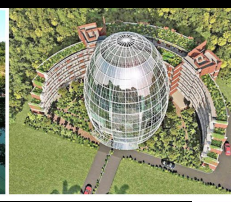
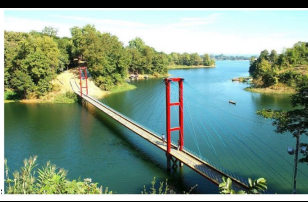
Lean Six Sigma Competition sponsored by Tooling Tech Group

First Place

ID 56 Revolutionizing Healthcare System through Lean Thinking

Mohammed Raihan Uddin, Department of Industrial & Production Engineering, Bangladesh University of Textiles (BUTEX), Dhaka-1208, Bangladesh

Prof. Dr. Mohammad Asif Salam, Faculty of Economics and Business Administration, King Abdulaziz University, Jeddah, Saudi Arabia



Lean Six Sigma Competition sponsored by Tooling Tech Group

Second Place

ID 36 Ranking the Critical Failure Factors to Lean Six Sigma Implementation in Dairy Processing Industry: A Bayesian BWM Approach

Ferdous Sarwar, Ph.D., Professor, Industrial and Production Engineering,
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.
Abhro Shome Pias and Omer Tahsin, Industrial and Production Engineering,
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh



Lean Six Sigma Competition sponsored by Tooling Tech Group

Third Place

ID 30 Reduction of Changeover Time by Using the SMED Technique with the Assistance of Lean Manufacturing Tools in a Plastic Company

Rotan Kumar Saha, Md. Minhaj Uddin, Md. Mustafizur Rahman, Md.
Tutul Islam and Md. Mukshitul Mumin, Department of Industrial and
Production Engineering, Dhaka University of Engineering and
Technology, Gazipur 1700, Bangladesh



First Place

ID 79 Optimizing Service Operations in Banking System: A Discrete Event Simulation Modeling Approach

Md. Asfaq Jamil, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

Md. Ahsanul Mobin, Department of Textile Engineering, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

Oyshik Bhowmik, Lecturer, Department of Industrial and Production Engineering, National Institute of Textile Engineering and Research, Dhaka, Bangladesh



Second Place

ID 97 Study of CFD Simulations for Leak Detection in Gas Transmission Networks

Afsar Uddin, Nazmul Kader Chowdhury and Hamed Shahryar,
Department of Mathematics, University of Chittagong, Chattogram,
Bangladesh

Dr. Mohammad Jalal Ahammad, Professor, Department of
Mathematics, University of Chittagong, Chattogram, Bangladesh

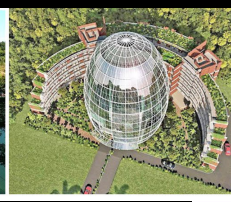


Third Place

ID 113 Computational Fluid Dynamics Simulation to Advance the Effectiveness Urban Drainage System Management

Mohammad Jalal Ahammad, Department of Mathematics, University
of Chittagong, Chattogram-4331, Bangladesh
AVP science unit, NSRIC Inc. Ontario, Canada

Mr. Anwar Ahmad Siddiquee, Department of Mathematics University
of Chittagong, Chattogram-4331, Bangladesh



Supply Chain and Logistics Competition

First Place

ID 149 Leveraging Digital Twins: A Framework for Sustainable Supply Chain of Perishable Goods in Bangladesh

Mohammad Jawadul Hoque Rohan, Sajid Hassan Sejan and Fairuj Hodayra, B.Sc. in Industrial & Production Engineering (Ongoing), Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka-1208, Bangladesh

Dr. M. Azizur Rahman, Associate Professor, Department of Mechanical and Production Engineering, Faculty of Mechanical and Production Engineering.

Ahsanullah University of Science and Technology, 141-142, Love Road, Tejgaon I/A, Dhaka-1208, Bangladesh

Dr. Md. Shahnewaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Faculty of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh



Supply Chain and Logistics Competition

Second Place

**ID 32 Optimization in Supply Chain Components to
Design a Strategic Model and Research Opportunities
to Enable Profitability: A Case Study**

**K. M. Sharif Ahmed and Joyanta Barman Shuvro, Singer
Bangladesh Limited, Bangladesh**



Supply Chain and Logistics Competition

Third Place

ID 252 Weaving Sustainability: Enhancing Textile Supply Chains with IoT and RFID in Circular Logistics and Resource Reuse

Md. Sadman Sakib, Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka-1205, Bangladesh

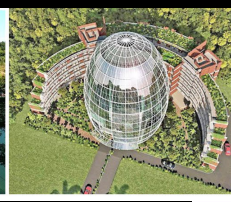


Supply Chain and Logistics Competition

Third Place

ID 120 Planning for Procurement of Raw Materials and Supplies for Small and Medium Enterprise

Christian, Lina Gozali and Lamto Widodo, Industrial Engineering
Department, Faculty of Engineering, Tarumanagara University,
Jakarta, Indonesia



COVID-19 Competition

First Place

ID 40 Automatic Detection Of COVID-19 And Other Pneumonia from Chest X-ray Images Using Convolutional Neural Networks and Collection of COVID-19 Affected Chest X-ray Images

Md. Tanvir Mahmud Prince, Muhammad Masud Karim, Fariha Sadeque and Mohammad Nahid Zahangir, Department of Electrical and Electronics Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka 1205, Bangladesh



COVID-19 Competition

Second Place

ID 151 Post Covid-19 Complications Detection Using ML Review Paper

Syed Mominin Islam Tamim, Student of American International University-Bangladesh (AIUB) and Jr. Software Engineer at Venus IT Ltd., Dhaka, Bangladesh

MD. Nadim Hasan, Student of American International University-Bangladesh (AIUB), Dhaka, Bangladesh

Md. Tafsimum Islam Tanzid, Student of American International University-Bangladesh (AIUB) and Jr. Software Engineer at Divergent Technologies Ltd., Dhaka, Bangladesh

Tanvir Ahmed, Lecturer, American International University-Bangladesh (AIUB), Dhaka, Bangladesh



Poster Competition

First Place

ID 156 Modeling and Design Analysis of Tesla Model S Powertrain with A Concentration Towards Battery Management System and Regenerative Braking
Captain Fahim Foysal Arnob, Abdullah All Mamun Anik and Mosammat Sadia Akter Moon, Department of Industrial and Production Engineering, Military Institute of Science and Technology (MIST), Dhaka Department of Mechanical Engineering, Military Institute of Science and Technology (MIST), Dhaka, Department of Computer Science and Engineering, University of Chittagong, Chattogram, Bangladesh



Innovative Idea Competition

First Place

ID 250 Cost-Efficient IoT-Based Alert System for Timely Machine Maintenance in Textile Factories
Md. Sadman Sakib, Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka-1205, Bangladesh



**2023 IEOM
Bangladesh
Awards**



See you at the

7th IEOM Bangladesh Conference

December 21-23, 2024

Host: American International University Bangladesh (AIUB)

Conference Chair: Dr. Md. Ehasanul Haque, Head, IPE, AIUB

**6th Industrial Engineering and Operations Management Bangladesh Conference**
Dhaka, Bangladesh, Dec. 26-28, 2023
Venue: **Krishibid Institution, KIB, Farmgate**



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