

Supported by IEOM Bangladesh Chapter

5th International Conference on Industrial and Mechanical Engineering and Operations Management

Dhaka, Bangladesh

Host University



Organizer



December 26–28, 2022

Venue: KIB, Farmgate

Sponsors and Partners



Chiang Mai University



Organizer



IEOM Society

"Achieving and Sustaining Operational Excellence"

www.ieomsociety.org

Industrial Engineering and Operations Management Society International

IEOM Society International, 21415 Civic Center Dr., Suite 217, Southfield, Michigan 48076, USA

Phone: 1-248-450-5660, Email: info@ieomsociety.org

Welcome to the 5th International Conference on Industrial & Mechanical Engineering and Operations Management

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 5th International Conference on Industrial & Mechanical Engineering and Operations Management (IMEOM 2022), Dec 26-28, 2022 to be held at KIB, Farmgate. Host is RUET and it is supported by IEOM Bangladesh Chapter. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 300 papers/abstracts submitted from 25 countries. After a thorough peer-review process, more than 200 have been accepted for presentation and publication. The program includes many cutting-edge topics in industrial engineering and operations management.

This conference will address many of the issues concerning the continuous improvement of quality and service. The IEOM Society is delighted to have the following keynote speakers:

Prof. Dr. M. Anwar Hossain, Former VC of IUT, Former VC of AUST and Former Professor of ME, BUET
Abdullah Talha, Managing Director of Noman Group of Industries & Talha Group, Dhaka, Bangladesh
Prof. Dr. Imtiaz Ahmed Choudhury, Professor of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh
Dr. Mohammad Uddin, Senior Lecturer at UniSA STEM, University of South Australia, Adelaide, Australia
Dr. Ahm Shamsuzzoha, Faculty, University of Vaasa, Finland and Head of CoVE for Green Innovation, Vaasa, Finland
Dr. Md Nazrul Islam, PhD, Michigan State University, USA, Associate Editor, IEOM Society International, Toronto, Canada
Mohammad Maksud Haq, Manager, Stamping Quality, Metrology Center, Stellantis, Warren, Michigan, USA
Dr. Kamrul Ahsan, Associate Professor, Dept. of Supply Chain and Logistics Management, RMIT University, Melbourne, Australia
Engr. Md. Mahmudur Rahman Manna, Chief Executive Officer, Maeashah Group, Dhaka, Bangladesh
Ferdoes Sarwar, PhD, Professor and Head, Department of Industrial & Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh
Professor Dr. Zambari Bin Jamaludin, Professor, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka (UTeM), Durian Tunggal, Malacca, Malaysia

At this conference, the IEOM Society will hold its 36th Global Engineering Education session. It will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 35th IEOM Industry Solutions will showcase and feature major topics including IoT, AI, Data Analytics, iCloud, Cyber security, Automation, Digital Manufacturing, MSV, and industry best practices. The 15th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. The 6th IEOM Global Business Management will focus on business operations improvement. Panel sessions have been planned: Industry 4.0, Lean Six Sigma, RMG Quality & Safety and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to our host, RUET, partner universities (AUST, BIM, KU and BUTEX), corporate partners and sponsors, global university partners, organization partners, authors, reviewers, keynote speakers, plenaries, all distinguished speakers, panelists, advisors, the local committee, and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming success.

We hope you will have a wonderful experience at the conference.



Dr. Md. Mosharraf Hossain
Conference Chair
Head of IPE, Rajshahi University
of Engineering & Technology
(RUET), Bangladesh



Dr. Ahad Ali
Conference Co-Chair
Executive Director of IEOM
Society and Associate Professor
of LTU, MI, USA



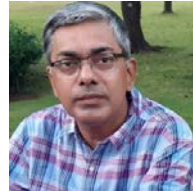
Professor Don Reimer
Program Chair
Lawrence Technological University,
Southfield, Michigan, USA



Dr. Nazrul Islam, Ph.D.
Program Co-Chair
Ph.D. Michigan State University
Associate Editor, IEOM Society



Prof. Dr. M Sarwar Morshed
Head, MPE Dept.
Ahsanullah University of Science
and Technology (AUST)
Dhaka, Bangladesh



Prof. Dr. Mohammad Iqbal
Professor, IPE Dept.
Shahjalal University of Science
and Technology (SUST)
Sylhet, Bangladesh



Dr. A.R.M. Harunur Rashid
Conference Honorary Secretary
Associate Professor, MPE Dept.
Islamic University of Technology (IUT)
Dhaka, Bangladesh



Prof Dr Md. Haider Ali Biswas
Conference Hon. Treasurer
Professor, Mathematics Discipline
Khulna University
Khulna, Bangladesh

Conference Program

December 26, 2022 (Monday) - Online

Virtual Competitions and Virtual Technical Presentations – Zoom Rooms 1-5

December 27, 2022 (Tuesday) - Onsite at KIB

8:00 – 9:30 am Plenary, GEE, GSCM and Technical Presentations - Rooms 1-4

9:30 – 10:00 am Coffee Break

10:00 - 10:05: Dr. Md. Mosharraf Hossain, Head of Industrial & Production Engineering Department, Rajshahi University of Engineering & Technology (RUET), Bangladesh - Room 1

10:05 – 10:30 am Welcome and Opening: Prof. Dr. M. Anwar Hossain, Former VC of IUT, Former VC of AUST and Former Professor of ME, BUET - Room 1

10:30 – 11:00 am Keynote I (Opening Keynote): Abdullah Talha, Managing Director of Noman Group of Industries & Talha Group, Dhaka, Bangladesh - Room 1

11:00 – 11:30 am Keynote II: Prof. Dr. Imtiaz Ahmed Choudhury, Professor of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh - Room 1

11:30 am – 12:00 pm Keynote III: Dr. Mohammad Uddin, Senior Lecturer at UniSA STEM, University of South Australia, Adelaide, Australia - Room 1

12:00 – 12:30 pm Keynote IV: Dr. Ahm Shamsuzzoha, Faculty, University of Vaasa, Finland and Head of CoVE for Green Innovation, Vaasa, Finland - Room 1

12:30 – 1:00 pm Keynote V: Dr. Md Nazrul Islam, PhD, Michigan State University, USA, Associate Editor, IEOM Society International, Toronto, Canada- Room 1

1:00 – 2:00 pm Lunch Break + Poster Competitions

2:00 – 3:45 pm Panel, GEE, GSCM and Technical Presentations - Rooms 1-4

4:00 – 5:30 pm Panel, GEE, GSCM and Technical Presentations - Rooms 1-4

7:00 – 10:00 pm, Tuesday, December 27: Conference Awards Dinner at Cafe Rio Buffet Dhanmondi 10A

December 28, 2022 (Wednesday) - Onsite at KIB

8:00 – 9:30 Plenary, Industry Solutions, GBME and Technical Presentations - Rooms 1-4

9:30 – 10:00: Networking Break

10:00 – 10:30: Remarks from Conference Chairs and Organizing Committee

10:30 – 11:00 Keynote VI: Mohammad Maksud Haq, Manager, Stamping Quality, Metrology Center, Stellantis, Warren, Michigan, USA - Room 1

11:00 – 11:30 Keynote VII: Dr. Kamrul Ahsan, Associate Professor, Dept. of Supply Chain and Logistics Management, RMIT University, Melbourne, Australia - Room 1

11:30 – 12:00 Keynote VIII: Engr. Md. Mahmudur Rahman Manna, Chief Executive Officer, Maeashah Group, Dhaka, Bangladesh - Room 1

12:00 – 12:30 pm Keynote IX: Ferdous Sarwar, PhD, Professor and Head, Department of Industrial & Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh - Room 1

12:30 – 1:00 Keynote X: Professor Dr. Zamberi Bin Jamaludin, Professor, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka (UTeM), Durian Tunggal, Malacca, Malaysia - Room 1

1:00 – 2:00 Lunch Break

2:00 – 3:45 Panel, Industry Solutions, GBME and Technical Presentations - Rooms 1-4

4:00 – 5:45 Panel, Industry Solutions, GBME and Technical Presentations - Rooms 1-4

Keynote Speakers – Room 1 (Onsite)

Tuesday, December 27, 2022

10:00 – 10:05 am: **Conference Chair Remarks** – Dr. Md. Mosharraf Hossain, Head of Industrial & Production Engineering Department, Rajshahi University of Engineering & Technology (RUET), Bangladesh

10:05 – 10:30 am: **Welcome Address** (Moderator: Dr. Md. Mosharraf Hossain, RUET)



Prof. Dr. Engr. Anwar Hossain
Former Vice Chancellor, AUST
Former Vice Chancellor, IUT
Former Professor, ME Dept., BUET

Prof. Dr. Engr. Anwar Hossain since graduation in 1961 from Ahsanullah Engineering college (AEC, now BUET) had been deeply involved with teaching and research & development activities in engineering and technology and contributed significantly towards the developments of engineering education and profession in Bangladesh, primarily in the capacities of Professor, Head & Dean of Mechanical Engineering & Director of Students Welfare (DWS) at Bangladesh University of Engineering and Technology (BUET), a public sector University; First Vice Chancellor of Islamic University of Technology (IUT), a multi-governmental, multi-cultural, multi-lingual international university established in Dhaka by 57- nation Organization of Islamic Cooperation (OIC) with Head office in Jeddah, Kingdom of Saudi Arabia; Second Vice Chancellor of Ahsanullah University of Science & Technology (AUST), a private sector university in Bangladesh; Chairman, last Board of Governors, Bangladesh Institute of Technology (BIT), Rajshahi (now RUET); Founder President of Bangladesh Society of Mechanical Engineers (BSME) and President of Institution of Engineers, Bangladesh (IEB), the apex body of all the engineers of the Country.

Prof. Hossain was also actively associated in various ways with a number of other educational institutions, research organizations, commissions and public sector corporations in Bangladesh like Bangladesh Agricultural University (BAU), Bangladesh Agricultural Research Council (BARC), Bangladesh Atomic Energy Commission (BEAC), Bangladesh University Grants Commission (BUGC), Bangladesh Planning Commission (BPC), Bangladesh Chemical Industries Corporation (BCIC), Bangladesh Steel & Engineering Corporation (BSEC), Bangladesh Standards & Testing Institute (BSTI), etc. Dr. Hossain was also the Chairman, Industrial Safety Board of Bangladesh, IEB; Member, National Road Safety Council; Member, 6th National Pay Commission; Member & Assessor, Professional Engineers Registration Board, IEB; Founding President, 61 Club of 1961 graduates (last batch) of AEC which instituted Dr. Rashid Professorial Chair at UET; President of North Bengal Samity and Pabna District Samity, both Social and Welfare Society based in Dhaka; etc.

At the regional and international level, Dr. Hossain was an active Member of the Executive Council of the World Federation of Engineering Organizations (WFEO), Commonwealth Engineering Council (CEC), Federation of Engineering Institutions of South & Central Asia (FEISCA) and Federation of Engineering Institutions of Islamic Countries (FEIIC). He was also engaged in teaching and research activities for about three years at Mosul University in Iraq and for about one year at University College, London as Commonwealth Academic Staff Fellow. He has more than 40 papers to his credit published in national and international journals primarily related to energy sector. In recognition of his valuable and praiseworthy contributions towards engineering education and profession, Prof. Hossain's name appeared in WHO'S WHO IN THE WORLD (5th Edition) published by MARQUIS, USA and he was honored by IEB with its highest award, IEB Medal.

Prof. Hossain has a brilliant academic record to his credit. He passed all the state examinations in First Division/Class with distinction, particularly stood First from Pabna Edward College in the combined merit list of I. SC (now HSC) Examination conducted by Rajshahi University in 1957, First with Honors in the Preliminary B.Sc Engineering Examination of Dhaka University in 1958 and Second in the Final B.Sc Engineering (Mechanical) Examination of Dhaka University in 1961. He obtained MS and PhD degrees from Cornell University, USA in 1964 and 1966 respectively. He was also a very good soccer player and athlete in his school/college/ university and in recognition of his performance he was selected from Rajshahi University for the All Pakistan Combined University Soccer Training Camp in 1957. He is still very active and a regular Member of Kurmitola Golf Club, Dhaka.

Prof. Hossain was born in Pabna in 1941. He has married Shahana Hossain who retired from BCIC as Senior Deputy Chief of Personnel. They are blessed with two daughters, Natalie and Shaolie, both have graduate/post-graduate degrees in Mechanical Engineering and also with three lovely grandchildren, Zareef, Zymee, and Zoeya.

10:30 – 11:00 am: Keynote I - **Opening Keynote** (Moderator: Prof. Dr. Mohammad Sarwar Morshed, AUST)



Abdullah Talha
Managing Director
Noman Group of Industries & Talha Group
Dhaka, Bangladesh

Abdullah Mohammad Talha is well-known for being one of the Managing Directors of Noman Group, the largest exporter of Bangladesh among all the categories of Bangladesh. Mr. Talha received the Commercially Important Person, Highest Category Tax Payer Award, President's Industry Development Award, and Highest Category Exporter in Terry Towels, Accessories, and Fabrics Manufacturing before the age of 30 years old. Mr. Talha has spearheaded complex projects in the Noman Group in turnaround, transformation, and modernization, exponentially increasing revenue and profitability in five industries. He led and sponsored the digital transformation of Oracle Inc's ERP System and secured it by implementing advanced cybersecurity systems in both hardware and software platforms. Subsequently, he has enabled data-driven information systems. He has improved the process with strategy and innovation management. He has managed several successful process improvement projects, which led to both effectiveness in efficiency and financial health development. Mr. Talha is always working on new projects to modernize the industries. He specializes in strategy,

tactics, and operational management, which includes leadership development, people and organizational management, supply chain management, experimentation, knowledge and learning management, innovation management, implementation, finance, and marketing.

11:00 – 11:30 am **Keynote II** (Moderator: Dr. Md. Mosharraf Hossain, RUET)



Prof. Dr. Imtiaz Ahmed Choudhury
Professor, Department of Mechanical and Production Engineering
Faculty of Engineering
Ahsanullah University of Science and Technology
Dhaka, Bangladesh

Imtiaz Ahmed Choudhury is a professor at the Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh. Dr. Choudhury was a professor at the Department of Mechanical Engineering, University of Malaya (UM), and was with UM from 1996 to 2022. He received his Bachelor Degree in Mechanical Engineering from Bangladesh University of Engineering and Technology (BUET), MEng from the Asian Institute of Technology (AIT), Thailand, MSc in Mechanical Engineering from Arizona State University, USA and Ph.D. from Dublin City University, Ireland. Professor Choudhury is a Fellow of Institution of Mechanical Engineers UK (IMechE), and a life fellow of Institution of Engineers Bangladesh (IEB). He is also a chartered Engineer UK (CEng). He has supervised PhD and Masters students and authored many ISI papers and several book chapters, including working as Section Editor on

recent MRW Comprehensive Materials Finishing (Sept 2016).

11:30 am – 12:00 pm **Keynote III** (Moderator: Prof. Dr. Mohammad Iqbal, SUST)



Dr. Mohammad Uddin
Senior Lecturer at UniSA STEM
University of South Australia
Adelaide, Australia

Title: **Advances and prospects in surface engineering for transforming manufacturing landscape**

Dr. Mohammad Uddin is a Senior Lecturer at UniSA STEM in University of South Australia. Right after completing his PhD at University of Kyoto, he worked as a Postdoctoral Research Fellow in University of California Davis (UCDavis) and University of New South Wales (UNSW). His current research focuses on innovative surface engineering, bio-manufacturing, design and processing of advanced materials, medical implants, smart biomedical sensors and surgical technology. Due to growing aging population and undesired medical complications, health care cost and burden across the world is mounting. Therefore, development of emerging technologies is inevitable. Equipped with advanced research facilities and capacity, my lab collaborates with world leading researchers and takes fundamental interdisciplinary engineering and scientific approach to underpin the burning issues with an aim of developing innovative solutions. His research activities are highly supported by intramural and external competitive research grants from industry, state, federal, CRC, ARC and OLT funding bodies. To date, he has secured a total research grant of A\$2.2m, thanks to those generous agencies. Currently he leads a research team consisting of 2 PhD, 1 Master and 6 undergraduate project students.

His research complements and supports UniSA's key theme "Transforming Industries" thus contributing to sheer economical and societal development within Australia and the world. A recent highlight of his research work is development of an innovative surfacing approach to biodegradable Mg implants and smart sensor for healthcare industry. To date, he has published more than 50 articles in high quality and leading journals and conferences. Among are 38 journals, 11 conferences, 1 book chapter, 1 edited book.

His current research projects are:

- Innovative surfacing technique for the manufacture of biodegradable implants
- Surface engineering of advanced materials for improved surface integrity and fatigue life
- Innovative surgical bone drilling system
- Surface engineering for extended wear life of mining drill
- Design and development of smart sensors for healthcare industry
- Modelling and experimental assessment of biomechanics of engineered implants

12:00 – 12:30 pm **Keynote IV** (Moderator: Dr. A R M Harunur Rashid, IUT)



Dr. Ahm Shamsuzzoha
Faculty, University of Vaasa, Finland
Head of CoVE for Green Innovation, Vaasa, Finland

Green Innovation for Prosperous Society: Identification and Fulfilling Essential Skills Gaps

Dr. Ahm Shamsuzzoha received his Master's degree in Mechanical Engineering, majoring Energy and Environment from University of Strathclyde, UK and Ph.D. in Industrial Management from the University of Vaasa (UVA), Finland. He also received his Teacher's Pedagogical Qualification (Professional Teacher Education) from Tampere University of Applied Sciences, Finland in 2019. Ahm Shamsuzzoha is working as a Tenure Track Professor, Industrial Systems Analytics, School of Technology and Innovations, University of Vaasa and in the research platform Digital Economy. He has been involved in a leading position in a number of European Union projects and nationally funded projects in Finland. He is currently also involved in several ongoing projects both in European Union level and local projects in Finland. His research interests are mainly focused on supply chain and logistics

management, entrepreneurship, innovation management, blockchain, space data, sustainable energy and environment.

12:30 – 1:30 pm **Keynote V** (Moderator: Prof. Dr. Md. Haider Ali Biswas, KU)



Dr. Md Nazrul Islam

PhD, Michigan State University, USA
Associate Editor, IEOM Society International
Toronto, Ontario, Canada

Dr. Md. Nazrul Islam is currently working as an Associate Editor (Proceedings) at IEOM Society International, Ontario, Canada. Dr. Md. Nazrul Islam received his Master's degree in Irrigation, majoring Groundwater Engineering from the University of Newcastle Upon Tyne, UK and Ph. D. in Biosystem Engineering from Michigan State University (MSU), USA. He received the "Distinguished Academic Achievement" award in recognition of his outstanding academic accomplishment by the College of Engineering, MSU. Dr. Islam worked on the initiation of a research project on development of an ex-situ biological treatment method for removing arsenic from drinking water as a postdoctoral research fellow, in the Civil Engineering Department at University of Toronto, Canada. This method was consist of an ex-situ soil based reactor in which reduced metals including Arsenic (III) could be oxidized biologically and adsorbed onto soil particles. Dr. Islam is also interested in applying his knowledge to the design of low cost Subsurface-Flow - Constructed -Wetland (SFCW) to provide access to contaminant free water to rural areas.

Dr. Islam obtained his graduation degree in Agricultural Engineering, joined the Rural Electrification Board (REB) and worked diligently to develop a power use programme for boosting irrigation projects and rural industries in Bangladesh. Then he joined BRRRI (Bangladesh Rice Research Institute) as a Scientific Officer in the department of IWM (Irrigation & Water Management), and conducted field experiments on Irrigation and water management for increasing the crop production in Bangladesh. Dr. Islam contributed to establish a quantitative water management approach for GK-Irrigation Project of BWDB (Bangladesh Water Development Board). As a result, the overall Water Use Efficiency (WUE) of the GK-Irrigation Project was increased by nearly 25% and it contributed to the food production by producing about 0.1 Million tons of additional food grain in Bangladesh. Dr. Nazrul Islam authored twelve (12) professional research papers and published in national and international scientific journals.

7:00 – 10:00 pm, December 27, 2022 – Conference Awards Dinner at Rio Café Dhanmondi

December 28, 2022 (Wednesday) – Onsite

10:00 – 10:30 am: **Remarks from Conference Chairs and Organizing Committee**

10:30 – 11:00 am **Keynote VI** (Moderator: Dr. Md Nazrul Islam, IEOM Society)



Mohammad Maksud Haq

Manager, Stamping Quality, Metrology Center
Stellantis
Warren, Michigan, USA

Mohammad Maksud Haq is a manager of Stamping Quality, Metrology Center, Stellantis, Warren, Michigan, USA. He has various positions at FCA including Center Manager, Manufacturing Engineering Metrology (Detroit Processing Center- Jeep Wrangler), Metrology Supervisor and Sr. Dimensional Engineer at Jefferson North Assembly Plant (Grand Cherokee & Durango) for last 10 years. Mr. Haq worked as Lead Manufacturing Engineer at Ford Motor Company during 2000 to 2009 including launched all new 2010 model Lincoln closure installation to BIW, 2009 model Ford Flex Door Manufacturing and assembly, 2007 model Ford Edge/Lincoln MKX Hood and Liftgate Manufacturing and assembly and 2005 model Ford Focus Doors, Hood & Decklid Manufacturing and assembly. He was a manager of engineering metrology at Delphi Automotive System for 3 years. Mr. Haq worked as a Lean Manufacturing Engineer at General Motors during 1994 – 1997. He has

Master of Science in Manufacturing & Industrial Engineering from University of Toledo and BSME degree from Bangladesh University of Engineering and Technology. He has expertise in Shainin Red X ~ Black Belt, Leica Laser Tracker Programmer, CMM programmer, Auto, Aero, Nanotechnology, Hybrid Tech, Solar cell, FMS, ProEngineer and AutoCAD, Assembly and Fixture Design, Advanced GD&T, FEA, CP-CPK, Process, CI, ANOVA, Allen Bradley PLC, Kaizen, Ishikawa, Hoshin and Taguchi Methods, Robotic Systems, NPI, Process Optimization, DFA/DFM, Lean Principle with Six Sigma, Kaizan, System Integration, Analytical Modeling, CAD & CAE Software, Benchmarking, Budgeting, Statistical Analysis, Process Capability, DVP, PPAP, DOE, APQP.

11:00 – 11:30 am **Keynote VII** (Moderator: Prof. Dr. Md. Haider Ali Biswas, KU)



Dr. Kamrul Ahsan

Associate Professor
Department of Supply Chain and Logistics Management
RMIT University
Melbourne, Australia

Market demand of competencies for Logistics and Supply Chain Professionals

Kamrul Ahsan, Ph.D. is an Associate Professor in Supply Chain Management, College of Business and Law, at RMIT University, Australia. He obtained his PhD and MEng degree in Industrial Engineering and Management, and B.Sc. in Mechanical Engineering. He has started his teaching career at Industrial and Production Engineering (IPE) department, Bangladesh University of Engineering & Technology (BUET). Since his PhD in 2003, he has been teaching and leading logistics and supply chain management (LSCM) courses /degree programs in business schools in the international arena. He was a

visiting research fellow at University of Missouri, St. Louis, USA and visiting research scholar at the School of Management, Asian Institute of Technology, Thailand.

He has a strong reputation for his research profile in operations, supply chain, and project management. He has authored many peer-reviewed articles in reputed international journals. His research influences public policy development, informs skills and competency requirements for project management and supply chain professionals, and solves industry problems. He was appointed by the Australian Industry Standards (AIS) to serve on the national Technical Advisory Committee, and successfully developed the transport and logistics training packages for Registered Training Organisations. He has been increasingly recognized by the research and professional community and has received several prestigious awards and scholarships such as the Project Management Institution New Zealand (PMINZ) research achievement award 2011. His current research areas are supply chain and project management skills and competencies, modern slavery in supply chain, sustainable supply chain, reverse logistics, blockchain and 3D printing manufacturing supply chain.

11:30 am – 12:00 pm **Keynote VIII** (Moderator: Prof. Dr. Mohammad Sarwar Morshed, AUST)



Engr. Md. Mahmudur Rahman Manna, PEng, CEAI, NFPA, CSP, FIEB
Chief Executive Officer
Maeashah Group
Former Technical Advisor of Bashundhara Food & Beverage Industries Ltd.
Dhaka, Bangladesh

Md. Mahmudur Rahman Manna is a Chief Executive Officer, Maeashah Group, Dhaka, Bangladesh. He was a Former Technical Advisor of Bashundhara Food & Beverage Industries Ltd. Engr. Manna worked as Head of Corporate Sales & Services at BRB Cable Industries Ltd., Head of Sales & Marketing and Services at Bengal Telecommunication & Electric Corporation Ltd. (BETECO). And General Manager (Technical & Marketing) at Ramon oils Ltd. He received Bachelor of Science in Electrical and Electronics Engineering, Khulna University of Engineering and Technology, Master of Science in Environmental

Engineering Technology, Bangladesh University of Engineering and Technology and Post Graduate Diploma in Safety Management & Engineering, BUET –Japan Institute of Disaster Prevention for Urban Safety (BUET-JIDPUS).

12:00 – 12:30 pm **Keynote IX** (Moderator: Prof. Dr. Mohammad Iqbal, SUST)



Ferdous Sarwar, PhD
Professor and Head
Department of Industrial & Production Engineering
Bangladesh University of Engineering and Technology
Dhaka 1000, Bangladesh

Dr. Ferdous Sarwar is a Professor and Head at Department of Industrial & Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh. His areas of expertise include: 12 years of engineering research experience, 10 years of engineering project management experience, 4 years of experience focused on manufacturing, research, and development of microelectronic components, hands-on experience in flip chip, SMT, MEMS, laser processing, photolithography, wire bonding, and die attach process, strong background in SPC techniques, DOE, APQP, QFD, FMEA, DMAIC & Six-Sigma methods and

experience in selection and characterization of materials for microelectronics manufacturing such as TEM, SEM, FESEM and XRD. Dr. Sarwar has published papers in conferences and journals. He received Bachelor of Science (BS) and Master of Science (MS) in Industrial and Production Engineering from Bangladesh University of Engineering and Technology, Bangladesh and Doctor of Philosophy (PhD) in Manufacturing Engineering from North Dakota State University, USA.

12:30 – 1:00 pm **Keynote X** (Moderator: Dr. A R M Harunur Rashid)



Professor Dr. Zamberi Bin Jamaludin
Professor
Faculty of Manufacturing Engineering
Universiti Teknikal Malaysia Melaka (UTeM)
Durian Tunggal, Malacca, Malaysia

Dr. Zamberi Bin Jamaludin is a professor at Universiti Teknikal Malaysia Melaka at Faculty of Manufacturing. His research interests include Control, Manufacturing, Industry 4.0, mechatronics, motion control. He earned his PhD from Catholoc University of Leuven, Belgium; masters from Universiti Kebangsaan Malaysia and Bachelors from Lakehead University Canada. Now he is serving as a visiting professor at MPE Dept., IUT, Bangladesh for two semesters.

Plenary Speakers

Plenary I

Tuesday, December 27, 2022, 8:00 – 9:40 am – Room 1 (Onsite)

Session Chair: Dr. Md. Mosharraf Hossain, RUET

8:00 – 8:25 am, December 27 – Plenary Speaker I



A F M Sadequl Islam (Sadeq)
General Manager (Materials Management)
DBL Group
Kashimpur, Gazipur, Dhaka, Bangladesh

Mr. Sadeq started his career with Abul Khair Group (Abul Khair Steel Products Limited) Vhatiari, Chattagong. He also worked in Shah Cement Industries Limited, Beximco Group, Azim Group, Epyllion Group, Aman Group and Windy Group. Now he is in Meghna Group. He has the vast knowledge about Materials Management and Supply Chain Management of mentioned renowned large manufacturing industries in Bangladesh. Mr. Sadeq is also a honorary lecturer of BIHRM Supply Chain and Dream Zone (Uttara), Dhaka and the Chairman of Executive committee of BIHRM Supply chain wings. He has the practical experience of delivering speech in lots of Seminar, Conference and Workshops related with Motivation, Skill & Leadership Development, Job preparation, Effective Team Building, Time Management, Materials Management, Procurement & Distribution and Integrated Supply Chain Management. He has trained lots of people in various organization to develop their professional career. He attended many trainings and seminars and got experience regarding professional career. He always share his practical experience regarding problem solving issues in his career. He is very familiar with the participants and enjoyed the session. He is a proud member of BSCMS, BIHRM and MBA Association. He is from Monohargonj (Laksam), District: Cumilla, Bangladesh.

8:25 – 8:50 am, December 27 – Plenary Speaker II



Tapash Kundu
General Manager
Dekko Group
Dhaka, Bangladesh

8:50 – 9:15 am, December 27 – Plenary Speaker III



Dr. Md. Mazharul Habib
Additional Director
Bangladesh Industrial Technical Assistance Centre (BITAC)
Dhaka, Bangladesh

Member Practitioner-CQI, IMechE (U.K), IEB (Bangladesh), Member-AOM, (USA)
Master of Science in Quality Management, UWS University of the West of Scotland (UWS)
STEM Ambassador, (Glasgow, U.K), Paisley, PA1 2BE, U.K
Bachelor of Science in Mechanical Engineering, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

An accomplished and experienced Mechanical Engineer with a major focus on manufacturing management, procurement, and tender process, and technical operations. Possess hands-on experience in highly competitive real pressure in a mechanical engineering and production-based environment with managerial skills. Capable of thriving under a high-pressure working environment to achieve uphill goals. Well organized and result oriented individual with proven ability to implement standards. Interested in engaging Operations and Management, Sales purposes job. Mr. Habib joined as an Assistant Engineer, promoted Executive Engineer. I had served at Production Control Department (PCD), Mold making shop and Machine & Tool shop in BITAC (Bangladesh Industrial Technical Assistance Center) Dhaka, a leading and pioneer mechanical based Industrial Engineering organization and an advanced training center. Mr. Habib has successfully completed few advance technical training. Mr. Habib had completed few trainings as 'Training of Trainers Program' based on Machine Shop Practice, NanYang Polytechnic Institute, Singapore. He also had taken technical training in India on Design of jigs & fixtures, Design of dies and molds, 'CNC manufacturing systems' held in CITD, Hyderabad, India. Mr. Habib also completed a training on human resources development in die and molds organized by AOTS, in Yokohama, Japan. Besides Md Mazharul Habib has also attended and successfully completed few training on Lean Six Sigma, Statistical Process Control, in UK.

9:15 – 9:40 am, December 27 – Plenary Speaker IV



Md Habibur Rahman
 Manager Supply Chain, Runner Automobiles Limited
 Ex-Assistant Manager, ACI Motors Limited
 Dhaka, Bangladesh

Md Habibur Rahman is a proactive and highly organized supply chain management professional with over eight (8) years of demonstrated ability to significantly add value, improve quality, and reduce procurement costs by standardizing processes, effective demand planning, negotiating favorable terms, and streamlining global and local supplier channels. Md Habibur Rahman has completed my BSc in Mechanical Engineering from Khulna University of Engineering and Technology. Also, he has completed my MSc in Mechanical Engineering from Dhaka University of Engineering and Technology. Moreover, he is pursuing a diploma in procurement and supply from CIPS. Currently, Mr. Rahman is working for Runner Automobiles limited as a Manager Supply Chain. He is responsible

for Runner Motorcycles components and MRO (maintenance, repair, and operational) items sourcing and procuring from international and local sources. Also, he is responsible for ensuring the aftermarket service team required logistic support. He worked with BAJAJ Motos India, KTM, Different Chinese companies (Lifan, Dayang, Haojin), and Vespa management staff. Previously, Mr. Rahman worked for ACI Motors Limited as an Assistant Manager of Spare Parts and services. He was responsible for ensuring all product spare parts availability and service team logistic support. In ACI Motors Limited. He got the opportunity to work directly with some world-renowned organizations like Yamaha Motors Japan, International Tractor Limited India, Yanmar Japan, and FOTON.

Plenary II

Wednesday, December 28, 2022, 8:00 – 9:40 pm – Room 1 (Onsite)

Session Chair: Dr. Mohammad Iqbal, SUST

8:00 – 8:25 am, December 28 – Plenary Speaker V



Eng. Md. Sourove Akther Momin
 Additional Director
 Walton Hi-Tech Industries PLC
 Dhaka, Bangladesh

Innovative, Industrious Mechanical Engineer with proven record of accomplishment in learning Manufacturing design skills on Hermetic Reciprocating Compressor. A communicative, encouraging team player who presents ideas effectively and is able to assist others in the latest procedures. Held a variety of process and project engineering, Process Developing, planning & analysis, Quality Assurance, Quality Control, Risk Management, Software Applications, Statistics, Manufacturing, Audit Programs, Technical Training and manufacturing management positions. Strong technical, organizational and leadership skills used to implement innovative cost-effective solutions, lead change and promote growth through teamwork. Quickly surpassed expectations in design as well as in end-to-end project management. Mr. Sourove have served Walton Hi-Tec. Industries PLC

(Compressor Manufacturing Unit) Last six years in several positions and Departments. In the several position Mr. Sourove have worked on Process Engineering, Design Engineering, World Class Manufacturing(WCM) implementation, Lean Manufacturing concept Implementation, Six Sigma, 5S implementation, FMEA, Root Cause Analysis, Cutting tools Engineering, Metal Cutting Manufacturing, Motor Manufacturing, Project Management, SolidWork design, AutoCAD design, Process Improvement, Electrical/Mechanical Design, Plant Layout Statistics analysis, Audit Programs, and Technical Training Program, Dealing with Several supplier to purchase machinery in an efficient way as well as developed the policy. Mr. Sourove had completed few trainings Metal Cutting Application Engineering Training from Kennemetal, Metal Casting Conducted by DISA shaping industry Spain, Making Casting Reliably by BUET, Bangladesh, CNC Lathe operation and Programming by Fuji Japan, Project Management Professional (PMP)® according to PMBOK 35 PUD. Besides Mr. Sourove has also attended and successfully completed few trainings on Lean Six Sigma, Statistical Process Control.

8:25 – 8:50 am, December 28 – Plenary Speaker VI



Dr. Sajal Chandra Banik
 Professor, Department of Mechanical Engineering
 Chittagong University of Engineering & Technology (CUET)
 Chittagong, Bangladesh

Dr. Sajal Chandra Banik is a Professor in the Department of Mechanical Engineering at Chittagong University of Engineering & Technology (CUET), Bangladesh. He has graduated in Mechanical Engineering from Bangladesh University of Engineering and Technology (BUET), Bangladesh in 1998. He obtained his M.Sc. in Mechatronics degree from Technical University of Hamburg-Harburg (TUHH), Germany in 2005. He was awarded PhD degree (Robotics and Artificial Intelligence) from Saga University, Japan in 2009. He has served also as a visiting professor for one year at Veltech University, Avadi, Chennai, India. His research fields are robotics and mechatronics systems. He has participated in NASA's 4th Annual Lunabotics Mining Competition-2013, Kennedy Space Center, Florida, USA and gathered 10 days experienced there and also participated in ABU Robocon in 2014. By this time, he has acquired professional and organizational experiences like Dean, Head, Provost, Higher Education Quality Enhancement Project's (HEQEP) Manager, UG/PG/PhD student's Supervisor, National Consultant for '4IR Based Future Skills' project under a2i. He has also organized several International Conferences as Conference Chair/Secretary. He is also Co-editor/reviewer for several renowned international journals. He is Fellow of IEB and member of ASME and Advisor of ASME, CUET branch. He has published more than 80 research papers including IEEE, Scopus, and Springer journals.

8:50 – 9:15 am, December 28 – Plenary Speaker VII



Md Tanul Islam
General Manager, Beverage & Dairy
PRAN-RFL Group
Dhaka, Bangladesh

Md Tanul Islam is working as a General Manager of Beverage & Dairy, Beverage & Dairy at PRAN-RFL Group, Dhaka, Bangladesh. Earlier he was Chief Engineer and Maintenance Engineer. Tanul received B.Sc. in Mechanical Engineering, Khulna University of Engineering and Technology, Bangladesh in 1998.

9:15 – 9:40 am, December 28 – Plenary Speaker VIII



Engr. Kh Abu Nur Ashfaq Ahmed Lord
General Manager
Bag Manufacturing Plant
Bashundhara Group, Bangladesh
Life Fellow, Institute of Engineers, Bangladesh (IEB)

Kh Abu Nur Ashfaq Ahmed Lord is now working as Head of Plant & General Manager of Bag Manufacturing Plant, a unit of BASHUNDHARA GROUP, a leading business concern of Bangladesh, since February, 2018. 24 years more professional experience where he has worked in the fields of engineering, supply chain and operations management. He earned B.Sc. in Mechanical Engineering from Khulna University of Engineering and Technology (KUET), Bangladesh in 1998. Then he joined as a project Engr in the Lift & Escalator section of HUANDAI, Dhaka, Bangladesh. Then he switched to Chottogram Shah Amanat Airport Development Project under HITACHI CONSORTIUM. In February, 2001 he joined in Abul Khair Group. A long time about 17 years more, he worked in different factories at different positions. He was Head of Plant, Poly Sack Plant, Shah Cement Ind. Ltd. a sister concern of Abul Khair Group, before joining Bashundhara Group. He has visited 14 countries more including UAE, India, China, Nepal, Korea, Tanzania, Saudi Arab, Singapore, Thailand, Sri Lanka, Maldives, Malaysia, Indonesia and Vietnam for professional events. Long time he is involved in IEOM and IEB, Bangladesh.

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Professor Don Reimer, Lawrence Technological University, Southfield, Michigan, USA
Dr. Nazrul Islam, Ph.D.-Michigan State University and Associate Editor, IEOM Society International

Conference Chair - 2023 IEOM Dhaka Conference

Prof. Dr. Jamal Uddin Ahamed, Head, Department of Mechatronics and Industrial Engineering, Chittagong University of Engineering & Technology, Pahartoli, Raozan, Chittagong, Bangladesh

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Md. Miraiz Hossain, Lecturer, MIE
S. M. Fahim Faisal, Lecturer, MIE
Tasnuva Jahan Nuva, Lecturer, MIE

IEOM Global Engineering Education Chair

Dr. Shamsuddin Ahmed, Professor, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC), Boardbazar, Bangladesh

IEOM Global Business Management Chair

Dr. Md. Mamunur Rashid, Head, Production Management Division, Bangladesh Institute of Management (BIM), Dhaka, Bangladesh

IEOM Global Supply Chain and Logistics Chair

Md. Belal Hossain, Manager, Supply Chain Management, PRAN-RFL Group, Dhaka, Bangladesh

Industry Chair

Sadique Salim, Vice President, Bangladesh Six Sigma Management Institute, Lean Six Sigma Master Black Belt, Dhaka, Bangladesh

Industry 4.0 Chair

Md. Abdullah Al Mahmud, Founder & CEO, Thriving Skills Limited and Assistant Professor of MIS, Manarat International University, Dhaka, Bangladesh

Women in Industry and Academia Chair

Annesha Ahmed, PMP, Director, Strategy & Business Development, Diesel Power Services Limited, Dhaka, Bangladesh

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IEOM Student Chapter Faculty Advisors in Bangladesh

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2. BIM - Bangladesh Institute of Management: Prof. Dr. Engr. Md. Mamunur Rashid
3. BUET - Bangladesh University of Engineering and Technology: Dr. Ferdous Sarwar and Dr. A. B. M. Mainul Bari
4. BUTEX - Bangladesh University of Textiles: Dr. Mohammad Ali
5. CU - Chittagong University: Dr. Mohammad Jalal Ahammad
6. CUET - Chittagong University of Engineering & Technology: Sanjeeb Roy
7. DIU - Daffodil International University: Dr. Md. Mahbulul Haque and Md. Momtazur Rahman
8. DUET - Dhaka University of Engineering & Technology: Professor Dr. Md. Anwar Hossain
9. EUB - European University of Bangladesh: Dr. Abu Taher
10. IIUC - International Islamic University of Chittagong: Prof. Dr. Mohammad Masrurul Mowla
11. IUBAT - International University of Business Agriculture and Technology: Dr. Muhammad Hasibur Rashid Chayon
12. IUT - Islamic University of Technology: Dr. A.R.M. Harunur Rashid
13. JUST - Jessore University of Science and Technology: Dr. A. S. M. Mojahidul Hoque
14. KU - Khulna University: Dr. Md. Haider Ali Biswas
15. KUET - Khulna University of Engineering & Technology: Professor Md. Golam Kader
16. MIST - Military Institute of Science and Technology: Shahriar Tanvir Alam
17. NITER - National Institute of Textile Engineering and Research: Mr. Mahamudul Hassan
18. RU - Rajshahi University: Dr. Mohammed Harunor Rashid
19. SUST - Shahjalal University of Science and Technology: Mrs. Shanta Saha
20. WUB - World University Bangladesh: Dr. Md. Mizanur Rahman

36th IEOM Global Engineering Education

Global Engineering Education I

December 27, 2022, 8:00 – 9:40 am – Room 2 (Onsite)

Session Chair: Md. Ashfaur Arefin

8:00 – 8:20 am, Tuesday, December 27, 2022



Md. Ashfaur Arefin

Assistant Professor, Department of Industrial and Production Engineering
Dhaka University of Engineering & Technology (DUET)
Gazipur-1707, Bangladesh

Mr. Md. Ashfaur Arefin is an assistant professor at the Department of Industrial and Production Engineering (IPE) at Dhaka University of Engineering & Technology (DUET), Bangladesh. Mr. Arefin is a Bangladesh University of Engineering and Technology (BUET) graduate. Before joining DUET, he served as a lecturer at Ahsanullah University of Science and Technology (AUST) and Military Institute of Science and Technology (MIST). Mr. Arefin's research interests include advanced manufacturing, green machining, additive manufacturing, and the development of composite materials. He is currently the project director for a UGC-funded initiative aimed at improving the machinability of hardened steels with cryogenically treated carbide tools. Mr. Arefin served as a member of the Industrial and Production Engineering department's self-assessment committee at DUET.

8:20 – 8:40 am, Tuesday, December 27, 2022



Kazi Shahidullah, PhD

Assistant Professor, Curriculum and Instruction
Bangladesh University of Professionals (BUP)
Dhaka, Bangladesh

Kazi Shahidullah, PhD, is an Assistant Professor in Curriculum and Instruction at the Office of the Evaluation, Faculty, and Curriculum Development, at Bangladesh University of Professionals. He earned his PhD in 2016 emphasized on Curriculum, Teaching, and Learning at the Faculty of College of Education, at University of Nevada, Reno, U.S.A. His research interests are academic program and curriculum development, professional development, quality assurance, STEM Education, and educational reformation in higher education.

8:40 – 9:00 am, Tuesday, December 27, 2022



Md. Anwar Hossain, Ph.D. in BME

Technical Manager
National Electro-Medical Equipment Maintenance (NEMEMW) & Training Center
Mohakali, Dhaka, Bangladesh

Topic: Mathematical modeling of clinical engineering approach to evaluate quality of the patient care

Dr. Engr. Md. Anwar Hossain is currently working as a Technical Manager (Repair) in the National Electro-Medical Equipment Maintenance (NEMEMW) & Training Center, Health Service Division, Ministry of Health and Family Welfare, Bangladesh. He has completed his Ph.D. degree with the Department of Biomedical Engineering from Khulna University of Engineering and Technology, Bangladesh in 2020. Prior to that, he received his M.Sc. in Biomedical Engineering and B.Sc. Eng. degree in electrical & electronic engineering from the Khulna University of Engineering & Technology, Khulna, Bangladesh, in 2012 and 1990, respectively. His research interests include biomedical signal processing and mathematical modeling of clinical engineering approach to evaluate quality of the patient care and sensor devices for wearable health care monitoring. Dr. Hossain is the receipt of several awards. He is founder Secretary of Clinical Engineering Association of Bangladesh (CEAB) and he plays the key role to represent Bangladesh in international forum. He has published more than 26 top-tier journal articles.

9:00 – 9:20 am, Tuesday, December 27, 2022



Md. Mostafizur Rahman

Sr. Assistant Professor and Head
Team leader, departmental quality assurance cell
Chairman, departmental Curriculum Committee
Department of Textile Engineering
World University of Bangladesh, Dhaka, Bangladesh

Challenges in Engineering Education

Mr. Md. Mostafizur Rahman is working as Sr. Assistant Professor and Head Department of Textile Engineering, World University of Bangladesh, as well as the team leader of the departmental quality assurance cell and the chairman of the curriculum committee. At present, Mr. Rahman is a Ph.D. Fellow of the department of textile engineering, Dhaka University of Engineering and Technology (DUET). Md. Mostafizur Rahman graduated from Ahsanullah University of Science and Technology with a Bachelor of Science in Textile Technology. He completed the Master of Science in Textile Engineering from Mawlana

Bhashani Science and Technology University. Mr. Rahman also served as the chairman of the Self-Assessment Committee, Department of Textile Engineering in 2017 -18 under the higher education quality enhancement project (HEQEP) of the University Grants Commission and has enough experience to design and review the OBE curriculum, course profile, assessment strategy and also overlooks the activities and professional development of faculty members.

He has published several papers in international journals and also published book chapters under a publisher: Wiley – Scrivener. Md. Rahman has research works on various chemical treatment effects on fabric properties, the effect of ultraviolet protection finishes, the effect of yarn quality on fabric properties, natural polymer based composites, etc. Mr. Rahman is interested in research in the following area: • Biodegradable composites • Medical textiles • Modification of cotton fiber with synthetic polymer • Modification of jute fiber. Mr. Rahman started his career as a senior executive (R&D Department) at Interstoff Apparels Ltd. Gazipur, Bangladesh in 2008 before moving to the World University of Bangladesh as a Lecturer in 2010. Mr. Rahman was born in Pabna. From childhood, he was interested in Football, Cricket, and Badminton. Besides his professional life, he has actively engaged with social welfare organizations.

9:20 – 9:40 am, Tuesday, December 27, 2022



Dr. Abu Taher
Associate Professor and Chairman
Department of Industrial & Production Engineering
European University of Bangladesh
Mirpur-1, Dhaka, Bangladesh

Dr. Abu Taher is an Associate Professor at European University of Bangladesh. His research interests include Waste Management, Solar Cell, Catalysis, Nano-materials and Neno-technology. He earned his PhD from Inha University, South Korea; MSc and BSc from University of Rajshahi, Bangladesh. He was a Faculty member at Inha University, South Korea.

Global Engineering Education II

December 27, 2022, 2:00 – 3:40 pm – Room 2 (Onsite)
Session Chair: Dr. Md Shahadat Hossain Khan

2:00 – 2:20 pm, Tuesday, December 27, 2022



Dr. Md Shahadat Hossain Khan
Professor, Department of Technical and Vocational Education (TVE)
Islamic University of Technology (IUT)
Board Bazar, Gazipur-1704, Bangladesh

Dr. Md. Shahadat Hossain Khan completed his PhD from the University of Sydney, Australia. He has been working as a Professor of the department of Technical and Vocational Education (TVE), at the Islamic University of Technology (IUT), Bangladesh, since 2018. He has been working (teaching and research) in TVET sectors since 2004. He was awarded Australian Leadership Award Scholarship (Australia), Graduate Research Scholarship (Brunei), Skill-Road Scholarship (Seoul University, South Korea) based on his outstanding academic results, teaching and research expertise. His research area mainly explores on two wide directions: Technology education

and TVET sectors. More specifically, he has a wide experience on ICT-enhanced teaching and learning, Curriculum development in tertiary level, Professional development particularly focus on scholarship in teaching (student-centered teaching, ICT-integration, flipped classroom pedagogy during COVID-19 & Beyond) at national and international levels. In TVET sector, he is researching on TVET pedagogy, technology integration in TVET sectors & eTPD Model, and TVET reforms. Currently his research also focuses on TPACK (Technological, Pedagogical, Content, Knowledge) Framework in national and international contexts. He works as an international editorial member of many indexed journals. His research works published in the TOP RANKED ISI/SSCI indexed journals. Hence, his published journals and books chapters have already contributed internationally. BRIEF CONTRIBUTIONS: RESEARCH GRANT-(i) International Development Research Centre (IDRC), Canadian Government selected a research grant to Institute of Education and Research (IER), University of Dhaka, Bangladesh under a consortium of four more countries Nepal, Bhutan, Vietnam, and Timor-Leste, for conducting a research project titled as “Students’ participation and learning achievement at secondary level during pandemic and beyond: Impact of Gender and Inclusive pedagogical approaches”. Value: \$ 1176470 (Canadian Dollar); (ii) General Directorate of Foreign Economic Relations of the Ministry of Development of the Republic of Turkey selected me as a lead researcher for conducting a research project titled as Skills Development in the OIC Member Countries: Vocational Education. Value: US\$ 68,500.00; (iii) I have been awarded as Alumni Support Grant “From Theory to Practice: Establishing a Community of Practice (COP) to support Gender Equality, Disability and Social Inclusion” by the Australia Government from Nadia Simpson, Deputy High Commissioner- Australia High Commission Bangladesh (2022). RESEARCH OUTCOME: (i) I developed five teaching approaches (ICT-enhanced) based on intention and strategy framework, which is a new innovation in the area of teacher education. It was published in the top SSCI indexed journals (ISI/SSCI indexed Journals: Higher Education & Instructional Science). (ii) My recent work provides useful empirical evidence for minimizing the gap between teaching in tertiary education and workplace practices (SSCI indexed Journal: Journal of Educational Computing Research). (iii) My collaborative research work provided a new approach in understanding TPACK framework particularly when a teacher is planning to use ICT in teaching and learning which was published in another SSCI indexed journal (ISI/SSCI indexed Journal: Australasian Journal of Educational Technology). This piece of work contributed new insights towards existing knowledge that extended the TPACK framework. (iv) Teachers’ Attitude Towards Technology: we examined the trainee teachers’ attitudes toward technology adoption and use in tertiary engineering education. The Computer Attitude Scale (CAS) was extended by including the social influence component, to examine whether social norms affect the acceptance of technology by teachers that is published in the SSCI indexed Journal SAGE Open (iv) Guest Editor, Special Issue on: Emerging Technology in Teaching and Learning: Cases from Developing Countries, International Journal of Smart Technology and Learning.

2:20 – 2:40 pm, Tuesday, December 27, 2022



Md. Ariful Ferdous

Lecturer, Department of Industrial Engineering
BGMEA University of Fashion & Technology (BUFT)
Nishatnagar, Turag, Dhaka-1230, Bangladesh

Md. Ariful Ferdous is a faculty member at the Department of Industrial Engineering under the Faculty of Science & Engineering (FSE) of BGMEA University of Fashion & Technology (BUFT). He graduated in Industrial & Production Engineering from the Department of Industrial Engineering and Management, Khulna University of Engineering & Technology (KUET), Bangladesh. Previously, he worked as a Lecturer (IPE) in the department of Engineering under the same faculty at BUFT. He is a member of the Curriculum Development Committee for the Inclusion of 4IR-related topics to a different program in BUFT. Mr. Arif started his career as a Production Engineer in DIRD Felt Limited (a concern of DIRD GROUP), which is renowned as the largest UV Stabilized Non-Woven Geotextile

manufacturer in Bangladesh. He is a researcher in the field of Industrial Software Development in statistical Quality control, Data science, operations research, etc. His research interest includes Product Diversity in Non-woven Technology in the Textile & Apparel Sectors in Bangladesh, stochastic programming with uncertainty, and Machine Learning. Currently, Mr. Arif is currently working on several projects to design a closed-loop supply chain network considering stochastic programming under certainty.

2:40 – 3:00 pm, Tuesday, December 27, 2022



Abdullah Ali Mamun Anik

Selected for MIT Innovation Leadership Bootcamp 2022, U.S.A
Selected for Junior Research Fellow, SPARRSO, Ministry of Defence
B.Sc in Engineering, Industrial & Production Engineering- IPE
Military Institute of Science & Technology- MIST, Bangladesh
IEEE Best Paper Award Winner 2021, Singapore (IEEE SOLI 2021)
60% Scholarship, Global Ptak Prize Winner on Supply Chain 2021
Executive Director(R & D), MIST Innovation Club(March 2020- March 2021)
On Campus Finalist, HULT Prize Business Case Competition 2020
MIST Medal & MIST Achiever's Award from MIST Commandant 2020
MIST Best Engineering Project (ME Faculty) Award Winner- 2019

Curriculum assessment, teaching & learning and engineering education in Bangladesh

Abdullah Ali Mamun Anik is an Engineer in the discipline of Industrial & Production Engineering (IPE) from Military Institute of Science & Technology(MIST). Recently, he has been selected for the MIT Innovation Leadership Bootcamp 2022, U.S.A from Bangladesh. He also selected for Junior Research Fellow, SPARRSO, Ministry of Defence, Bangladesh. There, he will lead his research work entitled "Design and Fabrication of An Intelligent MARS Rover Curiosity Robot". He has completed his undergraduate thesis work on 'IoT Based Mechanized Industrial Automation Robot'. He solved the global supply chain case competition case on "FMCG Products" and received 60% Scholarship from ISCEA in 2021. He and his team members business case solution took their team in the Global Hult Prize Competition "On Campus 2020" Final.s His research work entitled "IoT Based Mechanized Robot; An Integrated Process Involving Multipurpose Control, Automation and Surveillance System" has been published in the "IEEE International Conference on Service Operations and Logistics, and Informatics, SOLI-2021", Singapore. It achieved the prestigious "Best Paper Award" and was declared as a "Global Winning Team" in that International Conference out of 84 finally selected teams for live camera presentation around the whole world. He have received MIST Best Engineering Project (ME Faculty) Award from respected "Education Minister of Bangladesh" on 27 January 2020. He also received Commandant's Commendation Certificate, Prestigious MIST Medal and MIST Achiever's Award from MIST Commandant on February 2020. He served as Executive Director(Research & Development), MIST Innovation Club(March 2020- March 2021) and contributed some innovative works in the research and development area. His research interest includes IoT based industrial automation & Modern Electronic systems, Supply Chain Management, Autonomous and Remote Control System, Industrial Automation, Operation Research, Lean Manufacturing, Six Sigma Implementation, Cybernetic control, Robotics & Artificial Intelligence. He is a member of IEEE, IEOM & ESAB.

3:00 – 3:20 pm, Tuesday, December 27, 2022



Prof. Dr. Md. Emdadul Hoque

Dean, Faculty of Mechanical Engineering
Professor, Dept. of Mechanical Engineering
Rajshahi University of Engineering & Technology
Rajshahi-6204, Bangladesh

Prof. Hoque received his BSc in Mechanical Engineering from Rajshahi University of Engineering & Technology (RUET), M.Eng. from Nanyang Technological University, Singapore and PhD from Saitama University, Japan. He is now serving as a Professor in Mechanical Engineering of RUET. His research interests include Active Noise and Vibration Control, Vibration Isolation, Mechatronics, MagLev System, Zero-Power Control, Renewable Energy, Energy Harvesting, Machinery Health Condition Monitoring, etc. He is a Monbukagakusho Fellow, JSPS Fellow,

JASSO Fellow and JSPS-UGC Fellow.

3:20 – 3:40 pm, Tuesday, December 27, 2022

**Dr. Md. Faruque Hossain**

Professor, Department of Electronics and Communication Engineering
Khulna University of Engineering & Technology (KUET)
Khulna -9203, Bangladesh

Prof. Hossain has a strong passion on electronic engineering which he used to get more than several years Teaching and professional experience, especially in the field of integrated optics and applied electromagnetics. He conducts both the theoretical and experimental research on several interdisciplinary areas. His primary focus has been on the optimized design and fabrication of optical waveguide devices considering the thermomechanical issues (stress-induced effects). The work involved the processing of polymer materials, thin film preparation and their nano-/micro-/macro-scale characterization, lithographic technique and extensive application of FEM analysis. As a natural evolution of his research experience, numerical modeling has taken a prominent importance in his research interests. He has carried out such modeling work in several separate directions including process modeling, heat transfer analysis, optoelectronic packaging as well as more recent work on microfluidics, modeling

of hemodynamics and SPR based biosensor design using MSc Marc and COMSOL Multiphysics. Meanwhile he is interested on interdisciplinary approach to solve biomedical engineering problems. The research goals include design and fabrication of implantable optical waveguides for optogenetic applications, implantable antenna for biotelemetry, and optofluidic devices for lab-on-a-chip. He received BS and MS in Electrical and Electronic Engineering from KUET and Ph.D. from City University of Hong Kong.

Global Engineering Education II

December 27, 2022, 4:00 – 5:40 pm – Room 2 (Onsite)

Session Chair:

**Dr. Shamsuddin Ahmed**

Professor, Department of Mechanical and Production Engineering
Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)
Boardbazar, Gazipur, Bangladesh

Prof. Dr. Shamsuddin Ahmed is currently working with IUT, an Organ of OIC. He graduated from BUET, Bangladesh in 1984. He has been in university teaching at CUET (1986-1997), University of Malaya (UM) Malaysia (1997-2015), and IUT (2015-) since 1986. He supervised postdoctoral research, 15 PhD and 20 masters' candidates. He administered several research projects as project leader (PI) including some high-impact research (HIR) projects. His research team published around 230 journal/conference papers, and received about 4,000 international citations. He delivered a good number of keynote speeches and 100s of public lectures. He is very much engaged with Washington Accord (WA) based Outcome-based Education (OBE) and BAETE-ABET accreditation exercises. He holds CEng (UK) certification, IET(UK) Membership, and IEB Life-fellowship. Currently, he is involved with

several Universities at home and abroad and several journals in different capacities.

4:00 – 4:20 pm, Tuesday, December 27, 2022

**Sajal K. Das, Ph.D., MIEEE**

Head, Department of Mechatronics Engineering
Rajshahi University of Engineering & Technology
Rajshahi-6204, Bangladesh

Sajal K. Das is the Head of the Department of Mechatronics Engineering of Rajshahi University of Engineering & Technology, Bangladesh, and served as the Director of Control System Research Group of RUET. He was the President of the Robotic Society of RUET and is the Advisor of the Robotics and Automation Society, IEEE RUET SB, Bangladesh. He earned a Ph.D. Degree from the University of New South Wales (UNSW), Australia, and worked as a Research Engineer at the National University of Singapore (NUS), Singapore. He was a Visiting

Academic at the University of Newcastle, Australia, and a Faculty Member of the Department of Electrical and Electronic Engineering of American International University-Bangladesh. He is a member of IEEE and serves as the Associate Editor in IET Renewable Power Generation, and Guest Editor in Sustainability, and Energies. His research interest includes robust control and applications, renewable energy generation and control, microgrid, smart grid, virtual power plant, cyber-security, and nano-positioning control. He has published more than 100 peer-reviewed journal and conference papers.

4:20 – 4:40 pm, Tuesday, December 27, 2022

**Kazi Saiful Islam Shawon**

Machine Learning Engineer
Spacenus GmbH, Dhaka, Bangladesh

Kazi Saiful Islam Shawon is a professional machine learning engineer. He is currently working at Spacenus GmbH. He is attached to global volunteering organization named as Omdena. Currently his role here is Engineering Lead. Shawon also a chapter lead of local community, named as Omdena Bangladesh Chapter, where he has successfully managed various projects to create impactful projects for social benefits. Most of his works are related to Geospatial Data Science, Computer Vision, Image Processing, Natural Language Processing, Recommendation. As a professional Software Engineer, he has experience in analysis, design, development, testing, and implementation of application designing, and project management. Shawon graduated from Rajshahi University of Engineering and Technology with a B.Sc in Electrical and Electronic Engineering. My Research are includes

geospatial data science, medical imaging and security in internet of things.

4:40 – 5:00 pm, Tuesday, December 27, 2022

**Mohammad Abdul Motin, Ph.D.**

Assistant Professor, Department of Electrical & Electronic Engineering
Rajshahi University of Engineering & Technology
Rajshahi, Bangladesh

Dr. Mohammad Abdul Motin is currently working as an Assistant Professor in the Department of Electrical & Electronic Engineering, Rajshahi University of Engineering & Technology, Bangladesh. He has completed his Ph.D. degree with the Department of Electrical and Electronic Engineering, the University of Melbourne, Australia in 2020. Prior to that, he received his M.Sc. Eng. and B.Sc. Eng. degree in electrical & electronic engineering from the Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh, in 2014 and 2011, respectively. His research interests include biomedical signal processing and machine learning, time series analysis, deep learning, monitoring neurological disorders, and sensor devices for wearable health care monitoring. Dr. Motin is the receipt of several awards and prizes including IEEE Upsilon Pi Epsilon Award, IEEE Lance Stafford Larson Award, IEEE Richard E. Merwin Scholarship, W. E. and C. H. H. Cook Memorial Award, ISSNIP Travel Grant, Melbourne Abroad Travelling Scholarship (MATS), ANZSCON 2017 Travel Grant, IEEE R10 SAC Best Paper Award (PG Level), IEEE Australia Council Student Paper Award (Post-graduate), and The University of Melbourne MIRS and MIFRS Scholarships. He is a senior member of IEEE, and currently serving as the treasurer IEEE SPS and the secretary IEEE EMBS, Bangladesh chapter. He has published one book chapter and more than 25 top-tier journal articles. Apart from that, he is serving as a Guest Topic Editor in Frontiers in Medical Technology, Review Editor in Frontiers in Physiology and Frontiers in Bioengineering and Biotechnology and Frontiers in Endocrinology and a reviewer in several top-tier journals including Springer-nature, IEEE, Frontiers, Elsevier and IOP publications.

5:00 – 5:20 pm, Tuesday, December 27, 2022

**Dr. Md. Iqbal Mahmud**

Professor and Chairman, Department of Mechanical Engineering
Former Chairman, Department of Textile Engineering
Mawlana Bhashani Science and Technology University (MBSTU)
Santosh, Tangail-1902, Bangladesh

Education, Research and 4IR: Prospects and Challenges in Bangladesh

Professor Dr. Md. Iqbal Mahmud is currently serving as the Chairman in the Department of Mechanical Engineering (ME) at Mawlana Bhashani Science and Technology University (MBSTU), Bangladesh. Prior to that, he served in the Department of Textile Engineering (TE), MBSTU for 16 years and acted as a Chairman of the Department. He has over 18 years of academic and industrial experiences in teaching, research and academic administration. He served as the chair of academic committee, planning committee and curriculum committee of TE department; as a member of academic council, teacher's selection board of TE, executive committee of different faculty, MBSTU. He served as the head of Engineering Office and Provost of two hall of residences, MBSTU.

Md. Iqbal Mahmud earned B.Sc. in Mechanical Engineering from Islamic University of Technology (IUT), Bangladesh. He received M.Sc. and Ph.D. in Mechanical Engineering from Kongju National University (KNU), South Korea. Later, he received Master of Business Administration (MBA) major in Human Resource Management (HRM) from University of Dhaka. He involved in academy-industry collaboration research project and worked as a Researcher/Research Engineer at Sinhantech Company Limited and Daejung High Polymer Industries Company Limited in South Korea. He was invited to attend the Department of Mechanical Engineering at the University of Canterbury, New Zealand as a Visiting Research Assistant.

Md. Iqbal Mahmud is a co-inventor of 4 (four) Korean patents, published more than 30 research articles in peer-reviewed journals and participated in more than 30 technical conferences in different countries including 9th IEOM in Bangkok and 10th IEOM in Dubai. He served as session chair/co-chair in different conferences and delivered technical speech as keynote/ distinguished speaker. He supervised a number of undergraduate and master's students and completed several research projects funded by the MBSTU research cell. His teaching and research activities have been focusing on Industrial Engineering, Productivity Management, OHS of Industrial Workers, Renewable Energy and ICE. Md. Iqbal Mahmud is a Life Fellow of the Institution of Engineers, Bangladesh (IEB); also member of Bangladesh Society of Mechanical Engineers (BSME), Bangladesh Solar Energy Society (BSSES), Bangladesh Association for Advancement of Science (BAAS), Dhaka University Alumni Association (DUAA).

5:20 – 5:40 pm, Tuesday, December 27, 2022

**Abdullah al Mamun**

Professional Software Engineer and Researcher
Manager at Robi Axiata Limited
Dhaka, Bangladesh

Artificial Intelligence: Classification, Applications, Opportunities, and Challenges

Abdullah al Mamun is a professional Software Engineer and Researcher. Currently, he is working as a Manager at Robi Axiata Limited. 10 Years of professional job career, he was responsible as Senior Software Engineer of Datasoft Systems Bangladesh Limited and Assistant Director of Primeasia University. He graduated from Rajshahi University of Engineering & Technology (RUET) with and B.Sc in Computer Science and Engineering (CSE). As a professional Software Engineer, he has experience in analysis, design, development, testing, and implementation of application designing and development platforms, and project management. Also, he is interested in research in Artificial Intelligence, Neural Networks, Deep Learning, Pattern Recognition, Hidden Markov models, and Machine Learning. His research has been published in 6 different international journals and conferences, including IEEE. He reviewed a book that was published on Amazon Kindle. He is a member of the Bangladesh Computer Society (BCS) and the Institution of Engineers, Bangladesh (IEB). In his long career, he got different academic and professional excellence awards.

6th IEOM Global Business Management

Global Business Management I – Industry Best Practice

December 28, 2022, 8:00 – 9:40 am – Room 3

Session Chair: Jaidur Rahman

8:00 – 8:20 am, Wednesday, December 28, 2022



Jaidur Rahman

Business Unit Manager; Decathlon Bangladesh

Sr. Executive- Supply Chain Planning; ACI Logistics Ltd

Jaidur RAHMAN is a PEOPLE & BUSINESS passionate professional with 14 years' experience in multinational & national companies of GLOBAL SOURCING, MANUFACTURING & RETAIL CHAIN. He has hands-on experience on Sourcing, Merchandising, E2E Supply Chain, Manufacturing, Team Leading and Business Operations Management. Jaidur RAHMAN is currently working as BUSINESS UNIT MANAGER in Decathlon; a leading sports goods retailer in the globe. He has played different operational & leadership roles in PURCHASE, SUPPLY, FINANCE, PROJECT MANAGEMENT and BUSINESS MANAGEMENT during 11+ years in Decathlon Bangladesh. Throughout this journey, he has the opportunity to work & contribute with Apparel, Footwear, Hardgoods & Metal products & processes. Before Decathlon, Mr. Rahman had 2.5 years working experience in ACI Logistics Ltd. in Supply Chain Planning with Demand Planning, Supply Planning, Distribution Management &

Warehouse Operations responsibilities. Mr. Rahman earned B.Sc. in Industrial and Production Engineering (IPE) from Bangladesh University of Engineering and Technology (BUET), Bangladesh. He then completed his MBA in Finance from University of Science & Technology Chattogram (USTC), Bangladesh. He has acquired professional certificates on several topics as Organizational Leadership, Leading People & Team, International Leadership & organizational Behavior, Successful Negotiation, Supply Chain Management, etc. Mr. Rahman is an official trainer of Decathlon and has facilitated different training/ workshops in the countries of Europe & Asia along with Bangladesh. He is passionate about LEADERSHIP & MANAGEMENT and takes the pleasure to LEARN & SHARE new advancements in this arena.

8:20 – 8:40 am, Wednesday, December 28, 2022



Abdul Monaieem Kudrot Ullah

Inspector Academy & Institution

Bangabandhu Sheikh Mujibur Rahman Maritime University, Dhaka, Bangladesh

Abdul Monaieem Kudrot Ullah is a Supply Chain enthusiast and researcher. He is a retired Naval Officer turned academican and had more than 30 years' work experiences in Bangladesh Navy, Directorate General Defence Purchases, United Nations Missions, Bangladesh Coast Guard, and Bangabandhu Sheikh Mujibur Rahman Maritime University. He conducts the courses on 'Supply Chain Management (SCM)' and 'Total Quality Management (TQM)' for undergraduate and graduate students. He is well equipped with practical and academic knowledge on Supply chains and People Management. He is proficient in change management and converting legacy system to digital platform. He has authored several handouts, instructions, dockets and articles on HRM, Geo-political Strategy, Supply Chain, and Moral Leadership. Presently he enrolled for PhD in Bangladesh

University of Professionals where he is researching on the topic, "Impact of Supply Chain Resilience on Organisational Performances during COVID-19 in Bangladesh. Overall, he is an accomplished, results-driven Maritime logistics professional offering of handful diverse experiences including defense and public procurement that spans across different components of Trade & Corporate contracts and International Procurement.

8:40 – 9:00 am, Wednesday, December 28, 2022



Md Ragib Al Hasan

Assistant General Manager

Bangladesh Rural Electrification Board

Kishoreganj, Dhaka, Bangladesh

Md Ragib Al Hasan is an Assistant General Manager at Bangladesh Rural Electrification Board, Bangladesh. He worked at Renata Limited as Assistant Manager, Engineering Dept. Manufacturing site, Sr. Officer, Engineering Dept. and Engineering Officer. He received Bachelor of Science in Electrical and Electronics Engineering from Khulna University of Engineering and Technology. He was CEO of BIONIX. His technical skills include: Machine Maintenance, Calibration of critical instrument, Standardization of Various Gauge, Commissioning of Machine, Documentation for Audit Purpose and HVAC System Monitoring.

9:00 – 9:20 am, Wednesday, December 28, 2022



Syed Hassan Sadman

Business Analyst

MetLife

Dhaka, Bangladesh

Syed Hassan Sadman is a Business Analyst at MetLife, Dhaka, Bangladesh. He was a Business Analyst at InsideMaps Inc. Syed was an Operations Associate at JAFF Arena & Academy. He worked at DeliveryHobe as Operations Manager, Customer Service Executive and Order Acquisition Associate. He was a Query Management Intern at Raincloud Digital.

9:20 – 9:40 am, Wednesday, December 28, 2022



Mohammad Faruque Hossain
General Manager, Industrial Relations and Sustainability
Comfit Composite Knit Ltd, Youth Group
Gorai, Mirzapur, Tangail, Dhaka, Bangladesh

MBA in HRM from the State University of Bangladesh
MSS in Industrial Relations & Labor Studies from the University of Dhaka
MSC in Environmental Science from Jahangir Nagar University
Founder of BSHRP
Founder of HR Club Bangladesh
Life member of Dhaka University Alumni Association (DUAA)

Mohammad Faruque Hossain has been working for more than 19 years in the field of the RMG (Ready Made Garments) industry and extensively looking after the development and General Operations of Industrial Relations, Sustainability, and Administration. He has been serving this industry in various capacities like the General Manager, Head of the Department as well Team lead in various renowned Bangladeshi Large Fully state of Art Vertical Garments setups. All the company he has worked with is esteemed and have modern machinery and practice modern management.

He is currently working as General Manager in Comfit Composite Knit Ltd and looking after the development and General Operations of Industrial Relations, Sustainability, and Administration. He has worked as a Team Leader in various capacities in the field of HR, Industrial Relations, Sustainability management, and General Administration for large RMG industry in different capacities like Cleaner Production Projects by the World Bank Group, Water Foot Print Cluster by IFC, Certified for implementing of ZDHC, worked for Partnership on Sustainable Textiles Project with German Government through GIZ, Working as MR of OHSAS. Also working

Expertise in Peoples management and doing Strategic HRM practices in the capacity for 12000 manpower. Looking after complete HR management with the help and techniques of Industrial Relations Principles. Working in the area of Talent management, Organization Development, Training and Development, HRIS, and digitalized payment system for fast and quick payments for employees. Making sure a strong HR management is in place. Expertise in ACCORD standards, All types of Audits standards (Ethical, Technical, CTPAT or Security Compliance, Health & Safety Audits), ToT in COC, Labor Laws, EHS, Fire safety, etc. Responsible for EHS (Environment, Health & safety management) and OHSAS. Expertise in formulating, Implementing various scopes of an industry, Hands on experience in Global compliance for RMG. Monitoring, maintaining, and implementing all compliance requirements. Upholding all legal requirements and time to time adjustment the local law or requirements whatsoever change.

Global Business Management II – Industry Best Practices

December 28, 2022, 2:00 – 3:40 pm – Room 3

Session Chair: Arshad Murad

2:00 – 2:20 pm, Wednesday, December 28, 2022



Prof. Dr. Engr. Md. Mamunur Rashid
Head, Production Management Division
Bangladesh Institute of Management (BIM)
Dhanmandi, Dhaka-1207, Bangladesh

Dr. Rashid is Bangladeshi National, Author, Researcher, Academician, Mechanical Engineer, Lawyer, Trainer and Consultant in the field of Occupational Health Safety, TQM, Supply Chain Management, Project Management, Production and Operations Management, Technology Management and Productivity for the last 29 years. He was born on November 1, 1970. He has been serving as a Senior Management Counsellor (Associate Professor) and Head/Chairman of Production Management Division at Bangladesh Institute of Management (BIM), Dhaka since 16 February 2004. He had been serving as a Professor of Industrial Engineering of King Saud University, KSA from September 18, 2016 to July 17, 2017 (on lien from BIM). As a faculty he has been facilitating for the Graduate and Professional training program around 100 in the areas of TQM, HRM, Compliance of ISO 9001:2015, SA8000, WRAP, ISO 14001:2015, OHSAS 18001:2007, Productivity and Competitiveness, Project Management with MS Project-2013, PMP preparation Course, Project Financial Analysis and Management, Integrated Management System, Supply Chain Management and Industrial Safety Management at BIM and outside of BIM. He also worked as adjunct faculty @ 11 universities i.e. Jahangirnagar University, BUP, AUST, IEB, DIU (three), BOU, IBAISU, BUBT, BUET, IPM, DIPTI, IUT, Planning Academy and Research Team Member for OHS and productivity improvement project of AUST-AAU for RMG in Bangladesh. Prior to this job he worked as a Mechanical Engineer of Jamuna Fertilizer Company, Bangladesh for around seven years. He obtained BSc in Mechanical Engineering degree from RUET (erstwhile BITR) on November 27, 1993 with First Class 8th position, MSc in Mechanical Engineering degree from BUET on December 28, 1996, MBA degree from BOU in 2004, LL. B (NU), LLM(BUP) and MSS in IRLS with 1st class 1st from ISWR, DU. He completed a Diploma in Computer Science and Applications (BOU), a PGD in Human Resource Management (IPM) and a Post Graduate Diploma in Marketing Management (BIM). He also completed Management Accounting, Project Management, Technology Management, Safety and Maintenance Management, Information Technology in Business and Artificial Neural System courses in Graduate level study at Industrial and Production Engineering Department of BUET and attended around 100 short courses training program both local and abroad like-Singapore, Nepal and India. Malaysia and Thailand. He has publications in renowned Journals (33); International Conferences (27) and a book on Industrial Health Safety and Welfare. He also obtained a Doctor of Engineering in Manufacturing Engineering degree under the Bangabandhu Fellowship program of GoB at Kitami Institute of Technology, Japan on March 18, 2013. He was also awarded the Scholarship from class IX-X, HSC, BSc Engineering and MSc Engineering degree from GoB. His journals are indexing almost all Universities of the world. He supervised 300 Safety Audits through students and safety related term papers/projects around 200. He is a member of the following professional organization/body: IEB, JSPE, BSME, BSTD, IPM and BCS. For more details kindly visit his profile at LinkedIn and Facebook. He is also a member of Google Scholar, Academia.edu and Scribd.

2:00 – 2:40 pm, Wednesday, December 28, 2022



Mohammad Morad Hossain
CHRO & Board Secretary
Elite Paint Group of Companies
Dhaka, Bangladesh

Mr. Morad has 19 years diversified experiences both in local and multinational organizations. Presently he is working as Chief Human Resources Officer (CHRO) & Board Secretary in Elite Paint Group of Companies. Immediate before, he served more than 5 years in Kansai Nerolac Paint Bangladesh Ltd, as well as, Management Representative (MR) for Quality Management System, QMS (ISO 9001:2008). Prior to that, he was in BSRM Group of Companies. Before that, he served more than 8 years as a Navigating Officer (afloat) in different capacity specially as a Skipper (Captain) in Super Group of Companies for more than three years. Mr. Morad is also an enlisted Visiting Lecturer of Marine Fisheries Academy (MFA) since February 2011, Bangladesh Institute of Human Resource Management (BIHRM) since January 2013 and Chartered Institute of Human Resources and Development (CIHRD) since July 2013.

Mr. Morad has been educated & trained in Bangladesh, India & Japan. He completed MBA in HRM, PGD in HRM, Diploma in Social Compliance (DSC) from BIM. He also completed LLB & Chartered HR Manager (CHRM). He is pursuing MPhil from BUP. He completed professional graduation including two years Pre-Sea Training as an 'Officer Cadet' from Marine Fisheries Academy. He has taken part a number of training & Courses in home and abroad. Among all, 'Solving Human and Organizational Problem (SHOP)' from Japan is aristocrat. He is an awardee of "100 MOST INFLUENTIAL GLOBAL HR PROFESSIONALS AWARD" from Mumbai, India.

Mr. Morad has good affiliation with professional Society & Organizations. He is former Joint Secretary & Fellow of BSHRM, Fellow of BOLD, Life Member of BSTQM & Associate Fellow of AABL, Australia. Mr. Morad is also a researcher. His research articles have been presented in various International Research Conferences, as well as, published in renowned journals. He has a vision to contribute on Human Capital Development by sharing his knowledge, skills and experience.

2:40 – 3:00 pm, Wednesday, December 28, 2022



Mojahid Chowdhury
Assistant Professor (Port and Shipping Management)
Bangabandhu Sheikh Mujibur Rahman Maritime University
Dhaka, Bangladesh

Mohammed Mojahid Hossain Chowdhury is working as an Assistant Professor in the Department of Port and Shipping Management at Bangabandhu Sheikh Mujibur Rahman Maritime University, Bangladesh. Mr. Chowdhury has achieved his BBA and MBA from the University of Dhaka and did his second master's in Shipping Management and Logistics from World Maritime University, Sweden. He is leading at least three research projects on transport and logistics under the University Grants Commission fund. His research has been published in top-tier journals in the transport and logistics section, and he presented six international conference papers in Hong Kong (IAME 2020), the Philippines (IMLA 25), and Dhaka (ICBM). He was awarded the "IMO Secretary-General Best

Dissertation Award 2020" for his best dissertation at World Maritime University, Sweden, while he was pursuing MSc in Shipping Management and Logistics. Mr. Chowdhury founded the Centre for Transportation and Logistics Research, Bangladesh (www.ctrbd.com), which is an excellent platform for maritime transportation and logistics research for Bangladesh, in particular, and the world, in general. Mr. Chowdhury loves to play with data. He applies different econometric and operations research models/tools to maritime transport and logistics and greatly contributes to academia and industry.

3:00 – 3:20 pm, Wednesday, December 28, 2022



S.M. Asif Hossain
MSc. in Engineering
Engineer, Bangladesh National Parliament (Govt. of the Peoples Republic of Bangladesh)
Researcher (Passive Acoustic Monitoring, Acoustic Signal Processing, Ocean Engineering)
Joint Secretary, Bangladesh National Parliament Employee Forum

S.M. Asif Hossain is an experienced maintenance engineer and a renowned researcher with a demonstrated history of working among government sectors and international research communities simultaneously. He received his B.Sc. in Engineering from Rajshahi University of Engineering & Technology (RUET), Bangladesh and completed his M.Sc. in Engineering from Khulna University of Engineering & Technology (KUET), Bangladesh. He is the 1st author of 20+ scientific articles published with the worldwide reputed journal-publishers, i.e., Nature, Elsevier, IEEE, Marine Technology Society, Acoustical Society of Japan, Underwater Technology Society and so on. In fact, he is still continuing his research on acoustic signal processing, marine technology and passive acoustic monitoring. As a Maintenance Engineer of Bangladesh National Parliament, he has the responsibility of performing the regular maintenance of the networking, electronics, IT devices and data centre. He has expertise in Matlab, LaTeX, Microsoft, Linux, etc. software's. He is active in professional level politics and presently working as elected Joint Secretary of Bangladesh Parliament Employees Forum and an active member of the Institution of Engineers, Bangladesh (Membership Id: M-41058). At the same time, he is a well-known club level tennis player in Bangladesh with a history of winning in numerous national and club level tournaments.

3:20 – 3:40 pm, Wednesday, December 28, 2022



Arshad Murad
General Manager, Industrial Engineering Department
Asian Group
Dhaka, Bangladesh

Arshad Murad is working as a General Manager of Industrial Engineering Department at Asian Group. He earned his B.Sc. in Industrial and Production Engineering from Shahjalal University of Science and Technology. He is currently enrolled in his Post-Graduation Diploma in Garments Business (PGDGB) at Institute of Business Administration (IBA), Dhaka University. He was involved and leads in several development projects during his job tenure. He worked on Fabric utilization enhances in cutting house at Colors & Stitch Ltd and also leads the project of Application of Statistical Process Control (SPC) for measurement control in preproduction stage (Mar 2018– Dec 2018). He also worked on Skills Improvement of Mid-level Management & Productivity Improvement at 'South East Textiles (Pvt.) Ltd.', (Jan 2013 – Dec 2013), Major contributor of Manufacturing Excellence Project at Habitus Fashion Ltd. (Jan 2016 – June 2016) and at Asian Group (Oct 2019 – Jul 2021) to improve efficiency with joint collaboration with consecutively Decathlon and Target ME team. He worked on Quality Management System Transformation Work focusing on Organization's Strategic Vision as well as the Data digitization project (1st Phase) on Quality Management System (QMS) for the entire operation (Jul 2020 – Dec 2021). He also engages with the Software development team as a concept developer on the Asian Enterprise Resource Planning (ERP) development project. Arshad Murad is working as a mentor of the Total Productive Maintenance (TPM) project focused on machine-related defect reduction as well as efficiency improvement at Asian Group. He also leads the project named "Product Risk Management as a preventive approach by implementing the Modern Failure Mode and Effect Analysis (FMEA) Tool in Garment Manufacturing, (Jul 2020 -present)".

Global Business Management III – Industry Best Practices

December 28, 2022, 4:00 – 5:40 pm – Room 3

Session Chair: Mamunur Roshid

4:00 – 4:20 pm, Wednesday, December 28, 2022



Engr. Dr. Azim Mohammad, PMP
Lead Consultant, Panacea Private Consulting-PPC
Dhaka, Bangladesh

Engr. Dr. Azim Mohammad is currently working as a Lead Consultant and Country Head at Panacea Private Consulting Group-PPC in the Production Engineering, Industrial Engineering, and Quality Development Sector, as well as providing various clients with all necessary productivity development, efficiency & capacity development, reengineering, QC, KPI, and KRA implementation, as well as assured strategic business planning, positioning, and development. He is a Growth-Centric business executive with a varied history of successful Factory development through Kaizen and Lean methodology, as well as experience managing complex businesses in a sustainable manner. Mr Azim is a result-oriented leader, driven by the desire to excel in business through the utilization of new concepts, with expertise in business planning, positioning & development, and channel development, with a vision of bridging practitioner and academician in education. He founded the Institute of Apparel Management in Bangladesh and served as its chief executive officer. He received a Bachelor of Science in Industrial And production engineering from Shahjalal University of Science and Technology (SUST), Bangladesh, a Master of Science in Advance Engineering Management from Bangladesh University of engineering technology, Bangladesh, and a Doctor of Philosophy in engineering science with a concentration in Lean Manufacturing from the University of Southern Denmark, Denmark. In addition, he is a member of the Project Management Institute in the United States.

4:00 – 4:40 pm, Wednesday, December 28, 2022



Engr. Muhammad Rashed UI Alam
General Manager, Summit Communications Ltd.
Fellow, the Institute of Engineers, Bangladesh.
Former Associate Fellow, Malaysian Institute of Management, Malaysia

Rashed is a qualified Senior Program/ Project Management Professional in Telecommunications with over 20 years of experience in driving business results and maximizing profitability through the delivery of exceptional product quality and service in diverse roles across the organizational hierarchy. After completing his graduation from Khulna University of Engineering & Technology (KUET), he pursued his career in Grameenphone Ltd for four and half years. Then he worked in Huawei for Managed Services in Bangladesh & Saudi Arabia for different Mobile Network Operators around five years. Leaving Huawei, he joined in a local company, for hybrid solar solution, telco sites' remote monitoring systems. After that he worked for edotco (an Axiata TowerCo) for four and half years, where he worked for increasing energy efficiency, remote controlling, operational excellence, OpEx saving etc. After that he joined in ZTE for their sourcing and partner Management. Currently working for Summit Communications Ltd for their fiber connectivity implementations, project management, operational governance.

4:40 – 5:00 pm, Wednesday, December 28, 2022



Sohel Mahboob
Chief Executive Officer
Auleek Services & Oncosys International JV
Dhaka, Bangladesh

Sohel Mahboob is a Chief Executive Officer at Auleek Services & Oncosys International JV in Dhaka, Bangladesh. He is a Logistics and Supply Chain professional. Currently he is involved in business development in military and UN procurement for Bangladesh and Brunei Government supplies and services. Sohel is a Founder of Speedhost-bd. He is a Team Member of Chartered Institute of Logistics and Transport, Bangladesh. He received Master of Business Administration (MBA), International Business from University of Dhaka and Bachelor's degree in Humanities/Humanistic Studies from University of Chittagong. His specialties include: Supply Chain, Logistics, Mechanical Transport Management, Fleet Management, Rationing, Inventory and Sourcing Management. Construction and Housing Development. Digital strategy solutions and software in ERP, SaaS and other ITES.

5:00 – 5:20 pm, Wednesday, December 28, 2022



Mamunur Roshid
Manager, IE & Operations (Dry & Wet)
Wash & Wear Ltd. (Unit-1&2)
Natural Group-Denim Garments Washing Plant.
In charge, IE (Dry & Wet)-Columbia Washing Plant Ltd.
Executive, IE- Fareast Knitting & Dyeing Industries Ltd.

Mamunur Roshid is an Industrial Engineering & Operations Manager at Wash & Wear Limited (Unit 1&2), Natural Group. He earned B.Sc. in Textile Engineering from Primeasia University, Masters in Textile Management from Bangladesh University of Textile, Bangladesh. He has 9 years' experience in the field of Production, Operation, System & Process Development, Automation, Re-engineering, efficiency & performance development, Technical Analysis & evaluation, People Management, Strategic Business Planning & Development. He is Sound in Product Development, Value-Adding Activities, Capacity Development, Quality Development, Production Planning, People Management, Operation Management, reporting, Admin, Documentation Vendor Management, Risk Analysis, Stakeholder Management & Service Development related issues. His major contributions include develop total SOP for using software for real time production tracking. Design, Implementation, Execution of Real Time Data Tracking System (ERP) in Production Process (Industry 4.0 Concept).

5:20 – 5:40 pm, Wednesday, December 28, 2022



Sarker Mahatab Masud
PMP® | CB-PMO® | Prince2® Practitioner | Scrum Master Certified
Assistant General Manager, BRAC Project Management Unit (PMU)
Technology Division, BRAC

Sarker Mahatab Masud, a project management professional in the IT and ITES industry. He has been in a leadership role for the last 14 years with different national and multinational organizations in the domain of FMCG, Financial Institute, IT-Software companies, RMG's, pharmaceuticals etc. Mr. Mahatabs also a certified Project Manager with PMP and Prince2 practitioner credentials. He is also a key contributor of Project Management Office Guidebook published under the PMO GI. He has also worked in a largest ERP deployment initiative consists of 3240 branch automation. Mr. Mahatab is also a professional trainer of PMP and CB-PMO Certification program. He has also received the award from PMI Bangladesh chapter for outstanding contribution for a socially impacted project.



IEOM Bangladesh Chapter



IEOM Bangladesh Professional Chapter (IEOM BD Chapter) 2022 Executive Committee

Chair: Prof Dr. Md. Mosharraf Hossain (RUET)
Co-Chair: Dr. Mohammad Sarwar Morshed (AUST)
Honorary General Secretary: Dr. A.R.M. Harunur Rashid (IUT)
Honorary Treasurer: Dr. Md. Haider Ali Biswas (Khulna Uni)
EC Member: Dr.Md. Nurul Absar Chowdhury (IUT)
EC Member: Dr. Shamsuddin Ahmed (IUT)
EC Member: Dr. Mohammad Iqbal (SUST)
EC Member: Dr. A.S.M. Mojahidul Hoque (JUST)

35th IEOM Industry Solutions and Industry 4.0

Industry Solutions I

December 28, 2022, 8:00 – 9:40 am – Room 2

Session Chair: Taimur M Arif

8:00 – 8:20 am, Wednesday, December 28, 2022



Farazee Sazzad Hossain
Assistant Manager, Fresh LPG Ltd.
Dhaka, Bangladesh

Farazee Sazzad Hossain is a Mechanical Engineer, studied in KUET, whose experience lies in successfully managing operational processes, developing best practices, planning inventory, monitoring equipment and personnel logistical activities, and leveraging internal systems to facilitate improved efficiency and performance. Through his more than 6 years of experience, he has become adept in ensuring optimum manufacturing capacity in various sectors like Plastic, LPG, Cylinder Manufacturing etc. He started the career with RFL where he successfully implanted 5S in his area. Then he switched to LPG sector by joining Navana LPG Limited. He has done erection and commissioning of cylinder manufacturing and filling plant of Navana LPG Limited. As well as with all unexperienced operators he achieved highest capacity ever in cylinder manufacturing plant. Later he joined Meghna Fresh LPG. There he increased productivity using same machine and manpower by 30% of cylinder

manufacturing plant by adopting simple and small changes. He also reduced breakdown time, unnecessary movements during operation and all other wastages to increase productivity. Through his more than 6 years of experience, he has become adept in ensuring optimum manufacturing capacity in various sectors like Plastic, LPG, Cylinder Manufacturing etc.

8:20 – 8:40 am, Wednesday, December 28, 2022



Ron Mahenur
Founder & CEO, Uddoktagiri
Dhaka, Bangladesh

Ron Mahenur is an Entrepreneur and Founder & CEO of Uddoktagiri – A Startup. He is a passionate Entrepreneur, National ICT Awards Winner, ICT Division recognized Innovator, BASIS Certified Startups Founder, AIESEC recognized Global Entrepreneur, Tech enthusiast, SDGs Activist, Global Goodwill Ambassador, Visionary, Changemaker, Positive Thinker, Problem Solver, Storyteller, Researcher, Influencer & Mentor cum Career Coach for Millennials & Gen Z. Ron started his career as a tech entrepreneur since 2012 when he was only 19 years old young boy and an university student and founded 5 consecutive initiatives. Finally he innovated a simple but effective solution & founded my 6th initiative called Uddoktagiri in 2017 - which is a digital platform for the entrepreneurs! Because of the innovation, Uddoktagiri got ICT Division, Govt. of Bangladesh Recognition and Innovation Fund. In addition, Uddoktagiri received BASIS National ICT Awards 2019 as Top 3 Startups in

Media/News category. Beside, he works as a Founder & CEO at Algorithm which is a Technology/Software Company with a mission-vision to empower individuals and businesses through problem solving and innovation. He received Bachelor of Science (B.Sc.) in Software Engineering from Daffodil International University. Ron took online classes at Harvard University: Improving Your Business Through a Culture of Health and Stanford University: Entrepreneurship, Innovation and Technology.

8:40 – 9:00 am, Wednesday, December 28, 2022



Md. Shadatuzzaman Sourov
ASQ LSSBB, 6S, QMS & IATF Internal Auditor, Lean Practitioner-Trainer
Central Planner
Rahimafrooz
Dhaka, Bangladesh

Md. Shadatuzzaman Sourov is an Industrial Engineer and Central Planner-Rahimafrooz. He is ASQ LSSBB, 6S, QMS & IATF Internal Auditor, and Lean Practitioner-Trainer. He worked at Walton Hi-Tech Industries PLC as Assistant General Manager and Assistant Engineer-2. Sourov was General Secretary at Association of Industrial & Production Engineering (AIPE), RUET and President of RUET IPE Club. He received Bachelor of Science in Industrial & Production Engineering from Rajshahi University of Engineering & Technology.

9:00 – 9:20 am, Wednesday, December 28, 2022



Salim Reza
Manager & Head of IE & Planning Department
Edison Industries Ltd – Edison Group, Dhaka, Bangladesh

Salim Reza is a Manager & Head of IE & Planning Department at Edison Industries Ltd, Dhaka, Bangladesh. He focuses on processes of higher productivity, highest quality, shortest lead time and employees happiness through proper utilization of resources by customize implementation of Industrial & Production Engineering, lean tools & technique in leather goods, footwear and garments industries. He worked as Facilitator - System & Process Development at Mind Concord Bangladesh (Pvt) Limited and Senior Assistant Manager & Head of Industrial Engineering Department at Shoeniverse Footwear Ltd. He was a Lean Industrial Engineer at Ventura Leatherwear Mfy (BD). He received Bachelor of Science in Industrial & Production Engineering from Rajshahi University of

Engineering & Technology and Post Graduate Diploma in Leather & Footwear Management from East West University. He has Lean Six Sigma Black Belt Certificate and TMS (GSD) Certificate.

9:20 – 9:40 am, Wednesday, December 28, 2022



Taimur M Arif, FIEB, CLSSBB, CSCM™
Deputy General Manager
Quasem Industries Limited, Dhaka, Bangladesh

5S Applications

Taimur M Arif is a Certified Supply Chain Manager **CSCM™** (from ISCEA, USA), Certified Six Sigma Black Belt holder (PQLS, India), solid experience in Manufacturing, now working as DGM (Operations) at Quasem Industries Limited (manufacturer of lifestyle & homecare products) & having 20 years of blended experience in Plant Operations & Maintenance and Project Management in reputed multinational & local companies. He earned B.Sc. in Mechanical Engineering from Khulna University of Engineering & Technology (KUET) & Master of Business Administration (MBA) in Marketing from Comilla University (CoU). He has trainings on Toyota Production System (TPS), TQM, TPM, CREST Leadership Training from MDI, India, etc. He has vast professional experience on Manufacturing, Preventive Maintenance, Predictive Maintenance, Total Productive Maintenance (TPM), Lean Manufacturing & ISO certification. Prior to his present job, he worked as Plant Manager at Coca-Cola Bangladesh (franchise operation), Head of Factory at Bajaj Motor Assembly Plant under Uttara Motors Ltd, Deputy Manager at Marico Bangladesh Ltd, Mechanical Engineer at Emirates Cement BD Ltd (Now Holcim-Lafarge Cement).

9:40 – 10:00 am, Wednesday, December 28, 2022



Engineer Md. Mine Uddin
Industrial & Production Engineer
Karnafuly Dry Dock Special Economic Zone Ltd.
Chittagong, Bangladesh

Md. Mine Uddin is an Industrial and Production Engineer who is experienced in Manufacturing, Operations, Supply Chain, Production, Quality, Administration, Logistics, Procurement, Inventory, Training and Development activities more than 13 years. He has completed his Bachelor of Science in Industrial and Production Engineering under the Department of Mechanical & Production Engineering. Lot of Social Activities such as Emergency Response Team management for any kind of natural disaster while going on, come forward to help poor people, educating helpless people, serving food those are starving, balancing people, encourage people for violence-free activities. Professional Experience in Event Management, Conference, Catering Services, Organization Management, Vendor Management, Training Program arrangement and so on. He has a Thesis on Primary Energy Sourcing in Bangladesh and A way Forward for next 100 years. He develop various development process in Manufacturing industries, Group of Companies, National & Multinational Companies and also numerous Heavy & Light Industry. He loves to explore the world & its beauty, intension to develop the world in a organized way for the better steady development of future generation, Overall build- up a smart nation.

Industry Solutions II

December 28, 2022, 2:00 – 3:40 pm – Room 2
Session Chair: Mohammad Subail-Bin-Alam

2:00 – 2:20 pm, Wednesday, December 28, 2022



Mohammad Golam Kibria
Founder and CEO
iota Consulting BD, Bangladesh

Mohammad Golam Kibria is a Founder and CEO, Iota Consulting BD. He is providing leadership to manufacturing and service industry towards achieving conformity and compliance to requirements for quality, health and safety, environment and social responsibility. He had experience for 9 Years as Country Manager/Country Chief Executive in Bureau Veritas Bangladesh and 7 years as Chief Engineer in American Eagle Tankers (AET). He received BS in Maritime from South Tyneside College, UK and Master of Business Administration (MBA) from Royal Roads University, Canada. He is a Lead Auditor/Lead Tutor in ISO 9001, ISO 14001, OHSAS 18001, ISO 50001, Lead Auditor in SA 8000.

2:20 – 2:40 pm, Wednesday, December 28, 2022



Mohammad Subail-Bin-Alam
Director & Country Head, Sarens Bangladesh Pvt. Ltd.
Director, Save Medical Limited
Dhaka, Bangladesh

Mohammad Subail Bin Alam, Director of Sarens Bangladesh Private Limited, a subsidiary of Sarens NV Belgium, is responsible for the entire operation. Sarens is the first heavy-lift global company in Bangladesh. Sarens started through him and currently, around 30 people are working having a yearly turnover of about 24 Million Euro. From Sarens, he worked to develop the business in Thailand & Myanmar and visited approximately 16 countries for business-related purposes. He is also a Director of Save Medical Limited, a hospital under construction in Bosila, Dhaka. Before Sarens, Mr. Subai worked in the Rahimafrooz Renewable Energy Limited (RREL) for project development and local and international bidding. The second-largest off-grid solar project globally, 650+KWp running under BPDB, was achieved and developed under him. Earlier in RREL, he worked in Getco Trading and set up the first Gas Driven based CNG station in Dhaka. He started his career at One spinning Mills as an assistant engineer. He is also working as

a consultant for Tellus International to develop Google Bangla in this locality. He worked as a Wind Measurement Expert under an ADB project in an STA. Apart from those, he hosted some TV programs and is still a columnist on various news portals, including Prothom Alo. He has a conference paper published in "The International Conference on Climate Change and Local Wisdom." He has diversified experience in commercializing new products in Bangladesh Market, Startup setting up, Engineering product sales, business development, project development & operation, international sales, local & international tendering, and contract management. He conducted different pieces of training in Youth Carnival, JCI, KUET, Brac University & Rahimafrooz. He is also an Industrial Advisor of Green University and a present & ex-member of various social platforms like JCI, IEB, Solar society, BFSF, Youth Carnival, etc.

2:40 – 3:00 pm, Wednesday, December 28, 2022



Md. Aharap Shahriar Anik
Project Management Professional (PMP®),
Certified Six Sigma Master Black Belt (CSSMBB™)
Project Analyst, Criterion Group LLC
Member, Project Management Institute (PMI)
Member & Volunteer, PMI Bangladesh Chapter

Md. Aharap Shahriar Anik, PMP®, CSSMBB™ has been working in the engineering as well as project management field for several years and has been a part of multiple projects. He's particularly detail oriented and has always been praised for his ability to foresee potential problems and make proactive plans. During his previous roles, he served as project manager of MES Underpass & project engineer of Sena Edible Oil Industries. Both projects were

inaugurated by HPM Sheikh Hasina & executed by Bangladesh Army. He also worked as the program manager in the Vulnerability Assessment of 600 govt. infrastructures including schools, colleges, hospitals, fire services etc. under Urban Resilience Project (S4) of PIU, RAJUK & funded by World Bank envisioning with UN SDG: Sustainable Infrastructure. He's also an expert in maintaining project MIS. He also achieved global certification of Project Management Professional (PMP®) accredited by PMI (USA) which is one of the most recognized project management certifications all over the world. This precious accreditation helped him a lot to develop his management skills of scope, schedule, cost, resource, quality, procurement, stakeholder, communication, risk & integration. He's a member of PMI (Global), PMI Toronto Chapter (Canada) & an active volunteer of PMI Bangladesh Chapter as well. On another note, He's also a Certified Six Sigma Master Black Belt (CSSMBB™) which enabled him to develop any organizational process & quality reducing waste using lean management. In addition, He has the knowledge regarding Agile, Hybrid, Waterfall, Kanban, Scrum, Kaizen, 5S, 8D etc. exclusive management methodologies & productivity frameworks. He appreciates straightforward yet relaxed professional interactions. He highly values feedback that will make his works run more smoothly.

His experience working with cross-functional, international teams has enabled him building trusted relationships and inspiring a shared organizational vision. He believes that real-world experience can be brought about in developing successful project plans, communicating expectations clearly, and encouraging team enthusiasm, even in the late stages of the project / product cycle.

3:00 – 3:20 pm, Wednesday, December 28, 2022



Ziaul Hassan Serneabat
Head of Health and Safety
SHV Energy – Petromax LPG Limited

Ziaul Hassan Serneabat is the Head of Health and Safety of SHV Energy – Petromax LPG Limited. SHV Energy is a leading global distributor of off-grid energy, such as LPG and LNG, and is active in sustainable fuels and renewable energy solutions. He works directly with Country, Regional and Global Leadership Team on Strategic planning and Practical implementation of Health, Safety, Environment and Compliance issues. He is a Results-oriented professional working in the HSE field for the past 12 years in different well known MNC's of Bangladesh (LafargeHolcim Cement, Adani-Wilmer Group, Avery Dennison). He has completed B.Sc. in Industrial and Production engineering from BUET and MBA from Dhaka University. He has achieved NEBOSH IGC certification and currently pursuing for NEBOSH IDIP. He is certified ISO 45001:2018 and 14001:2015 lead auditor. He has

experience in ISO 45001:2018 and 14001:2015 factory certification activities. He was regional EHS trainer for Adani Wilmar Group and Country representative in South-east Asia Transport Safety Network at LafargeHolcim Bangladesh Limited. He was also the Country Admin of Group Incident Reporting Tool in his past organizations trained in Singapore, Malaysia and India. He was trained on Effective EHS Management and KPI reporting conducted in Malaysia and Calcutta, India as a part of Global Development Program. He conducted audits as Lead auditor in Vietnam, Malaysia and India. He has experience in successful completion of audits from Customers, Government authorities, SEDEX, SLCP, Higg FEM, Structural Safety, Fire Safety, GRS, OekoTex, FSC etc.

3:20 – 3:40 pm, Wednesday, December 28, 2022



Engr. Ashrafuzzaman Bappy
Deputy General Manager (Factory in Charge)
Prince Electricals LTD
Dhaka, Bangladesh

Ashrafuzzaman Bappy is working as Deputy General Manager at Prince Electricals Ltd. and has 8 years of blended experience in Plant Design, Installation-Commissioning, Operations and Project Management in engineering, production lines, strategic procurement, Factory budget planning & compliances in reputed organizations. He is a Manufacturing Consultant. Bappy is a Chief Operating Officer of Idea 3D Solutions. He worked as a Deputy Manager at Energypac Engineering and Industrial & Production Engineer at Samuda Chemical Complex Ltd. He received Bachelor of Science in Industrial & Production Engineering from Shahjalal University of Science and Technology, M.Sc. in Management of Technology (Studying) from Bangladesh University of Engineering and Technology and Post Graduate Diploma in SCM, Supply Chain Management from Bangladesh Institute of

Management Studies.

Industry Solutions III

December 28, 2022, 4:00 – 5:40 pm – Room 2

Session Chair: Md. Hashib Pervez

4:00 – 4:20 pm, Wednesday, December 28, 2022



Mejbauddin Chowdhury
Production Manager
Jenson & Nicholson Bangladesh
Chattogram, Bangladesh

Mejbauddin Chowdhury have a Masters in Industrial Engineering (Major in Manufacturing and Logistics) from UT Arlington- USA and Bachelor in Mechanical Engineering from Chittagong University of Engineering & Technology. He is Certified as Six Sigma Green Belt by IISE. He has worked with M M International (Bangladesh) Ltd, General Motors, VITEC LLC, Kautex Textron Inc., Borgers USA Corporation, Lenovo US Inc. Mejbauddin Currently works as a Manager Production with Jenson & Nicholson Bangladesh Ltd (A sister concern of Berger Paints Bangladesh Ltd.). Mejbauddin has worked 8 years in United States in Automotive Manufacturing, Electronics Distribution in Process Engineering, Continuous Improvement (Lean Manufacturing), Manufacturing Engineering and Industrial Engineering roles. He has also worked 2 years in Bangladesh with Engineering & Procurement services company in Project Development & Management role. He Can develop, execute projects of different complexity and business

areas with multifaceted problems and formulate end to end solutions. He has led Manufacturing & Logistics Systems Design, Business Process Analysis & Improvement, Strategic Planning and Project Execution. Notable projects that he led or worked in the past ranges from Engineering & Sourcing of Plant Machinery, New Product Launch, Equipment Installation and Relocation, Digital Transformation, etc. Besides his core academic background, he Has extensive training in A3 Thinking, Rapid Problem Solving, Standardize Work, Job Instruction Sheet (JIS), Change Point Management, Total Preventive Maintenance (TPM), Toyota Production System, Lean Manufacturing, Environment, Health & Safety(EHS), Leadership skills, Operations Management, Project Management, etc. He is a firm believer in success of data driven decision making culture and hence has delved into data collection automation, data modeling, dashboard making.

4:00 – 4:40 pm, Wednesday, December 28, 2022



A S M Touhidul Islam M.Sc. (Research)
General Manager, Department of Production
A Reputed Garments Manufacturing Company
Adamjee EPZ, Narayangonj, Dhaka, Bangladesh

Touhidul Islam is an Industrial Engineer. He earned his Bachelor of Science (Engineering) in Industrial and Production Engineering from Shahjalal University of Science and Technology, Sylhet, Bangladesh. Also he has completed his Master of Science in Operation Management from University Malaysia Pahang in Malaysia. He has conducted his Master research in HICOM Automotive Malaysia on Lean Management. He has taught Management Information System and Business Communication courses at undergrad level in University Malaysia Pahang. In a professional career of more than two decades, he has been the founder head of department for two Lean departments in two multi national companies – Hop Lun (BD) Limited and Dewhirst Bangladesh. Also he has

established Industrial Engineering department in some locally renowned garments industries. His expertise ranges from production planning to production, quality and warehouse management. He is trained on Six Sigma Black Belt, time study, motion study, cellular manufacturing, productivity enhancement, and practical lean transformation by various global experts. As a passionate researcher, so far he has published 12 scholarly articles in some internationally renowned journals like Science and Engineering Ethics, Manufacturing Letters, International Journal of Recent Technology and Engineering, International Journal of Pure and Applied Mathematics, The IUP Journal of Operations Management, Journal of Humanities and Social Sciences Research, MEST Journal and International Journal of Knowledge and Learning. His research areas are quite diversified like Lean, Operation Management, Six Sigma, Problem Solving Success Factors, Textile Manufacturing, Multi Criteria Decision Making Methods (MCDM) e.g. Decision Making Trial and Evaluation Laboratory (DEMATEL) etc. His two latest papers are under review in International Journal of Lean Six Sigma and Journal of Change Management. He has traveled in four countries – Dubai, China, Thailand and Malaysia and visited many factories and attended in conferences.

4:40 – 5:00 pm, Wednesday, December 28, 2022



Sanouar Hossain
Assistant General Manager-Factory
SSG (Super Star Group)
Dhaka, Bangladesh

Sanouar Hossain is an Assistant General Manager-Factory at SSG (Super Star Group), Dhaka. He is an experienced leader with successful track record of Factory Operation, Production innovations, Service delivery and Corporate communication. Sanouar has been instrumental in building Super Star and Philips Lighting as number one brand and market leader with more than eighty percent (80%) market share in Bangladesh. He has more than 11 (Eleven) years of experience in Factory operation field having extensive experience in formulating corporate vision and long term strategy, leading all factory related functions including spearheading numerous production operation, manpower optimization, materials management, wastage minimization, maintenance management, 5s implementation, six sigma application, sourcing management, Human Resource Management(HRM), Production Planning Management (PLM), Digital Marketing Management (DMM), Customer Relationship Management (CRM), E-commerce, Facebook Marketing, customer service , managing Corporate Social Responsibilities (CSR). Some successful project innovations. He was Factory Manager under I R Bulb Company Limited. He worked as Production Engineer and Assistant Engineer, Quality Assurance at Philips Lighting. He was also Production Engineer at Miracle

Industrial Ltd. He received B. Sc. in Industrial and Production Engineering from RUET and Masters of Business Administration (MBA) in Operation Management from East West University. He is a member at technical committee of Bangladesh Standard & Testing Institute (BSTI), Engineering Institute of Bangladesh (IEB) and E - Commerce Association of Bangladesh (E-CAB). He attended Project Management Professional (PMP) Certification Training.

5:00 – 5:20 pm, Wednesday, December 28, 2022



Engr. Md. Anik Islam
Head of IE
Norban Group
Savar, Gazipur, Bangladesh

Engr. Md. Anik Islam is a professional graduate in Industrial & Production Engineering & an honorable Member of Institute of Engineers, Bangladesh (MIEB) and qualified & certified in Lean Six Sigma Master Black Belt (Dagher Institute for Professionals, Vietnam, 2020) along with wide experience in garment manufacturing work practices. Right now he is working in Norban group as Head of IE. He is proficient in Industrial Engineering specially in Lean Manufacturing, Work Standardization, Quick Response, Ergonomics, Project Management, Process Layouts & Business Re-engineering, Capacity Studies & Lean Assessment, PMTS and Quality Management. He has been involved in many projects in India and Bangladesh such as: DANIDA, DFID, SDC, The National Productivity Improvement Program for OGTC Delhi, India and Buyers Regional Productivity Improvement and Social Enhancement Program through Lean Manufacturing for ASDA/ George in Bangladesh. In addition, he has conducted several workshops on Lean Process Engineer and PMTS in India and Bangladesh and for the development of workplace trainers and many other topics related to Lean Manufacturing. He is certified in Black Belt by the Lean Center, Canada, 2017. Mr. Islam improvement efforts cover the entire manufacturing value chain from incoming materials up to shipping of finished goods. He received Bachelor of Science (BSc) in Industrial & Production Engineering from Shahjalal University of Science and Technology.

5:20 – 5:40 pm, Wednesday, December 28, 2022



Md. Hashib Pervez
O & M Competency Trainer
Chevron
Sylhet, Bangladesh

Title: Safety and health at work in Bangladesh

Md. Hashib Pervez is a HES Professional who is working as O & M Competency Trainer for Chevron Bangladesh, leading natural gas producer in Bangladesh. In his 08 years of career, worked for renowned local and multinational companies in Energy and FMCG Sector like Omera Petroleum Limited; Bangladesh Edible Oil Limited. He has completed B.Sc. in Chemical Engineering from JUST and pursuing MBA from IBA, RU. He has achieved NEBOSHIGC (UK) and looking for ASP Certification (USA). He has experience in ISO 45001:2018 and 14001:2015 LPG plant certification and local regularities activities.

Industrial Engineering & Operations Management Bangladesh Conference

December 26-28, 2023, Venue: KIB

Host: Chittagong University of Engineering & Technology (CUET)

<http://ieomsociety.org/bangladesh2023/>

Conference Chair

Prof. Dr. Jamal Uddin Ahamed, Head, Department of Mechatronics and Industrial Engineering, Chittagong University of Engineering & Technology, Pahartoli, Raozan, Chittagong, Bangladesh

Organizing Committee

Prof. Dr. Md. Mizanur Rahman, CUET
Md. Monowar Wadud Hridoy, Assistant Professor, MIE, CUET
Md. Miraiz Hossain, Lecturer, MIE, CUET
S.M. Fahim Faisal, Lecturer, MIE, CUET
Tasnuva Jahan Nuva, Lecturer, MIE, CUET

15th IEOM Global Supply Chain and Logistics

Global Supply Chain and Logistics I

December 27, 8:00 – 9:40 am – Meeting Room 3 (Onsite)

Session Chair: Tarequl Islam

8:00 – 8:20 am, Tuesday, December 27, 2022



Kh. Harun Or Rashid, CSCM™, CSCA™

Assistant Manager, Supply Chain
Checkpoint Systems Bangladesh Ltd.
Dhaka, Bangladesh

Talk Title: Optimization of SC via AI and automation in post corona era

Kh. Harun Or Rashid is an Industrial Engineer and Supply Chain Professional who is working as Assistant Manager, Supply Chain in a renowned Multinational Corporation (MNC) named as Checkpoint Systems Bangladesh Ltd. (A Division of CCL Inc.). He has working experience in various sectors i.e., Project Management, Operations Management and Supply Chain Management. He has also expertise on implementation of Lean Management. He also participated in best practice summit of CCL Industries (Thai) Ltd. one of the manufacturing factories of CCL Industries Inc. held in Thailand. Mr. Harun holds a Bachelor of Science (B.Sc.) degree in Industrial and Production Engineering (IPE) from Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh, and Master of Business Administration (MBA) degree from Bangladesh University of Professionals (BUP), Dhaka, Bangladesh having major in Supply Chain Management. Apart from this he has immense interest on professional courses and certifications. He has acquired the certification of CSCM (Certified Supply Chain Manager)™ from International Supply Chain Educational Alliance (ISCEA) besides his professional career. He eventually secured 100% scholarship for the certification of CSCA (Certified Supply Chain Analyst)™ participating in ISCEA PTAK Prize Global Case competition while studying B.Sc. in AUST.

8:20 – 8:40 am, Tuesday, December 27, 2022



Sharhat Ahammed Kabir

Assistant Manager of Supply Chain and Business Development
Meghna Group
Dhaka, Bangladesh

Sharhat Ahammed Kabir is a youthful, highly driven professional interested in supply chain management and data analytics. Sharhat is an energetic, committed, imaginative, and open-minded individual who enjoys developing new skills and advancing his career. Sharhat is the Assistant Manager of Supply Chain and Business Development at Meghna Group, one of the giant conglomerates in Bangladesh. Sharhat manages the whole E2E retail supply chain for top luxury brands in Bangladesh. He is assisting in developing a more cost effective, data-driven, and sustainable supply chain. He worked at Apex Holdings Ltd as an executive in supply chain management. Sharhat managed a vast supply chain network while implementing 5S, lean management methods, and an ERP system.

Sharhat has an MBA in Management Information Systems (MIS) from the University of Dhaka and a BSc in Industrial and Production Engineering (IPE) from Ahsanullah University of Science and Technology. In addition, he received his PGD in Supply Chain Engineering Management (PGDSCM™) from BIHRM. Sharhat Also obtained a Google Data Analytics Certificate, a Lean Six Sigma Black Belt from the Six Sigma Academy Amsterdam, and other professional certificates from other international organisations. Sharhat has a strong desire to learn new things and is passionate about photography, as seen by the many national and international awards he has received for his work. He also has a passion for finance, branding, and marketing. He is actively building these skills inside himself through professional development options like courses held by leaders in these fields.

8:40 – 9:00 am, Tuesday, December 27, 2022



Tarequl Islam

Capacity Planner – Supply Chain
Avery Dennison
Dhaka, Bangladesh

Tarequl Islam is an Industrial Engineer having working experience at Supply Chain & Production in RMG, FMCG & Packaging industries. Currently he is working as a Capacity Planner under the Supply Chain department of Avery Dennison RBIS Bangladesh which is a Fortune 500 USA based multinational company & a market leader in Material Science. He is responsible for manufacturing resource planning, peak season management & service management etc. in his current role. Prior to that he worked in the Supply Chain department of Meghna group of industries & the Production department of Ha-Meem group. He was involved in several improvement initiatives & projects related to inventory optimization, forecast accuracy improvement, supply chain process standardization & process improvement in his professional career. He holds a bachelor degree with a focus on Industrial &

Production Engineering from School of Applied Sciences & Technology, Shahjalal University of Science and Technology or SUST in short, Bangladesh. He also accomplished some academic projects related to Manufacturing, Simulation & Operations Management.

9:00 – 9:20 am, Tuesday, December 27, 2022

9:20 – 9:40 am, Tuesday, December 27, 2022

Global Supply Chain and Logistics II

December 27, 2:00 – 3:40 pm – Meeting Room 3 (Onsite)

Session Chair: Tanzid Ahmed Mihad

2:00 – 2:20 pm, Tuesday, December 27, 2022



Tanzid Ahmed Mihad, CSCA™

ULIP GTM Intern, Supply Chain, Customer Development & Sales Operations
Unilever, Dhaka, Bangladesh

Tanzid Ahmed Mihad is an Industrial and production Engineer, graduated from Khulna University of Engineering & Technology (KUET) this year. Also, He is a Certified Supply Chain Analyst (CSCA™) from International Supply Chain Education Alliance (ISCEA), Ohio, USA with 95% score. He worked in Unilever Bangladesh Limited under their Unilever Leadership Internship Program, ULIP at Go to Market Function with Customer Development-Sales Operations Team. He was very much enthusiastic about participating National & International Idea, Start-up & Business contests during his student life. He became the winner of 'Innovate for Bangladesh powered by bKash' & National 1st Runners-Up of Reckitt Benckiser Global Challenge 2020. He also won 60% scholarship from the ISCEA PTAK Prize, the global supply chain competition which is one of the largest case competitions. As well as,

he was the KUET on campus champion of HULT Prize and Bangkok Regional Finalist in 2020. Besides his academics during university, he had constantly involved with several clubs & participated in co-curricular activities associated with professional skill development. He directly led 2 major clubs at a time in his campus with more than 60 members. He had been a team player in organizing various successful events at his university. Moreover, He instructed & trained several workshops with 200+ participants in his university. He is also Certified NLP Practitioner in Mastery Expert Level from Sensei International, Sri Lanka.

2:20 – 2:40 pm, Tuesday, December 27, 2022



Dipa (Paul) Rani

Procurement & Purchase Officer
VIP Industries Limited
Mongla EPZ, Khulna, Bangladesh

Title: Application of Supply Chain Management in Luggage Manufacturing Industries

Dipa Rani Paul has worked in the purchase and procurement department of VIP INDUSTRIES BD PRIVATE LIMITED for almost 5 years. She has knowledge of the SCM processes of sales forecasting, RM planning, purchase, production, shipment, and warehouse management. Prior to that, she was working as a research assistant in the mechanical engineering departments of Khulna University of Engineering and Technology. She has a B.S. in Engineering degree in the Industrial and Production Engineering departments from Khulna University of Engineering Technology.

2:40 – 3:00 pm, Tuesday, December 27, 2022



Engr. Nahid Parveen

Sr. Manager, Procurement
Brac Dairy & Food Project
Dhaka, Bangladesh

Title: *The value chain of Brac Dairy from milk collection to processing, operations and to the end user*

Engr. Nahid Parveen is a senior manager of procurement at Brac Dairy & Food Project, Dhaka, Bangladesh. She is responsible to ensure day to day procurement operation of all kinds of products, consulting and non-consulting services for BRAC Dairy & Food Project with meeting up the demand of entire supply chain and maintaining a cohesive team spirit within the team and improve relationship with all internal and external stakeholders. A Procurement Specialist certified by Chartered Institute of Procurement and Supply (CIPS), UK having 15 years of experience major in Procurement and Supply Chain both in Multinational and Local Organizations in trading, real estate and an automobile industry and currently working in a dairy processing industry and she completed her graduation from Khulna University of Engineering & Technology (KUET) and currently doing her MBA from Brac University. Travelling to explore the culture of different countries and the footstep of this, she traveled 10 countries; UAE, Indonesia, Maldives, Vietnam, Sri Lanka Singapore, Malaysia, Thailand, Nepal and India both for professional events and personal interest, watch movies and like to cook. Her business philosophy is to strengthen the value chain of an organization by innovation, integration and stimulation to complete the task in a righteous way. To create better governance of procurement with the end goal of creating an environment within the organization, entire society and the policies of business, intolerant to criminal conduct, like any form of modern slavery, corruption or bribery and eradicating harmful environmental and social impacts. She is a life member of IEB, Bangladesh.

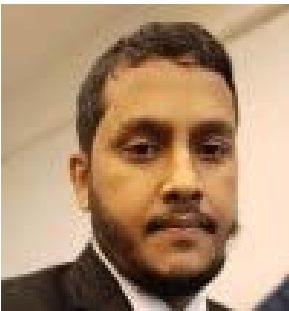
3:00 – 3:20 pm, Tuesday, December 27, 2022



Md Monjur Hossain
 Assistant Engineer (Planning and SCM)
 Akij Group
 Dhaka, Bangladesh

Md Monjur Hossain is an Industrial and Production Engineer with Supply Chain, Process Development and Lean Manufacturing background. He is a young Industrial Engineering enthusiast who is very much promising to contribute innovation with brilliance. He is working as a Supply Chain and Planning Executive. He works as an Assistant Engineer (Planning and SCM) at Akij Group. Monjur did Internship at Rahimafrooz Globatt Ltd. He received Bachelor of Science in Industrial and Production Engineering from Rajshahi University of Engineering & Technology and Associate's degree, Supply Chain Management from Bangladesh University of Engineering and Technology.

3:20 – 3:40 pm, Tuesday, December 27, 2022



Ashik Ahammed
 Supply Chain Professional
 Executive – Procurement & Supply Chain Management
 Jubilant FoodWorks Ltd., Dhaka, Bangladesh

Ashik Ahammed is a supply chain professional and Experienced Assistant Manager Supply Chain Management with a demonstrated history of working in the food & beverages industry. Skilled in Negotiation, Operations Management, Sourcing, Management, and Performance Management. Ashik is working at Jubilant FoodWorks Ltd. as an Executive - Procurement & Supply Chain Management. He worked at PRAN-RFL Group as Assistant Manager- Procurement & Supply Chain Management, Sub Assistant Manager - Procurement- Supply Chain Management and Management Trainee- Procurement- Supply Chain Management. He also worked as Executive-Procurement at Hamid Group and Officer- Procurement at Oasis Services Ltd. He received Bachelor in Business

Administration from Institute of Business Administration, University of Dhaka, Master in Procurement and Supply Management, Purchasing, Procurement/Acquisitions and Contracts Management from Institute of Government Studies and Master of Business Administration (MBA), Human Resources Management and Services from International Islamic University Chittagong.

Global Supply Chain and Logistics III

December 27, 4:00 – 5:45 pm – Meeting Room 3 (Onsite)

Session Chair: Engr. Md. Abdullah Al Mamun

4:00 pm – 4:20 pm, Tuesday, December 27, 2022



Md Sharif Uddin Nazmul Huda (MCIPS)
 General Manager and Head of Supply Chain Management, Sourcing, Finance
 Grameenphone Ltd., Dhaka, Bangladesh

Title of Talk: Challenges in Telco supply chain: Pandemic & beyond

Nazmul has been working in Procurement & supply chain for last eight years in the largest GSM operator in Bangladesh. In addition, he worked in Technology Operations, Business continuity & crisis management and some other work areas. His total work experience is 25 years. Other than Grameenphone, he also worked for Siemens Bangladesh Ltd and Grameen Telecon. He did professional diploma in procurement & supply (MCIPS) from Chartered Institute of procurement & Supply (CIPS), UK. Mr. Nazmul graduated in Electrical

& Electronics Engineering from Bangladesh University of Engineering & Technology (BUET), MBA from University of Dhaka and Master in Development studies (MDS) from North South University (NSU). He is seasoned professional & proven leader in Bangladesh telecom industry.

4:20 pm – 4:40 pm, Tuesday, December 27, 2022



Md Mazharul Islam, IDipNEBOSH, PMP®, CEM®, OHSAS Lead Auditor, B.Sc. Engg. (BUET)
Deputy General Manager, EHS and Sustainability
American & Efird
Dhaka, Bangladesh

Md Mazharul Islam is a Deputy General Manager, EHS and Sustainability at American & Efird. He is an experienced and proven Environment, Health & Safety and Sustainability practitioner leading EHS and Sustainability initiatives aligned with company policies, business goals and regulatory requirements to ensure sustainable business growth. Directly led and managed health & safety and sustainability projects, internal & external audits, inspections, risk assessments, incident management, global reporting and various certifications like ISO 14001, ISO 45001, Higg modules, ZDHC, WRAP, GRS, C2C, FM Global etc. Mazharul have accomplished some internationally recognized diploma and certifications like NEBOSH International Diploma (NVQ level 6) in Occupational Safety and Health from NEBOSH (UK), Project Management Professional (PMP) certification from Project Management Institute (PMI, USA), Certified Energy Manager (CEM) from Association of Energy Engineers (AEE, USA). He is a certified Lead Auditor on OHSAS 18001 and Certified Internal auditor on IMS (ISO) from IRCA, UK. He got the full scholarship to attend a 16 days long training on OSH and workplace Environment at AOTS in Japan. His focus areas includes: Sustainability, Health and Safety Management System and culture development, EHS, Compliance & Sustainability Auditing and Inspection, EHS Compliance, EHS Training, Risk Management, Project Management, Effluent Treatment Plant (ETP) and Membrane Bioreactor (MBR) and Team building. He received a Bachelor of Science (B.Sc.) in Industrial and Production Engineering from Bangladesh University of Engineering and Technology (BUET) and International Diploma, Occupational Health and Safety from NEBOSH.

4:40 pm – 5:00 pm, Tuesday, December 27, 2022



Engr. Md. Abdullah Al Mamun, CSCM™
Deputy Manager, SCM
Bangla Trac Group (Power Plant)
Banani, Dhaka, Bangladesh

Mr. Abdullah is working in Supply Chain Management dept under Powerplant segment of Bangla Trac Group. The main working areas are supply chain planning, sourcing & procurement management, Supply chain coordination between internal cross function & external stakeholder, Inventory management of Plant sites, internal system development of supply chain processes and coordinate SCM software implementation. Prior to join here, he worked in Walton Hitech Industries Ltd. as an In-charge of Inventory Planning department where managed a large volume material planning, Inventory functions and handled a big team of Inventory and Planning. Mr. Abdullah is graduated in Industrial and Production Engineering (IPE) from KUET on 2011 and achieved a professional Degree

of Certified Supply Chain Manager (CSCM TM) from ISCEA, USA in 2021.

5:00 pm – 5:20 pm, Tuesday, December 27, 2022



Miraj Mahbub Rafi
Supply Production Leader
Decathlon Sports Bangladesh
Dhaka, Bangladesh

Miraj Mahbub Rafi is a Supply Production Leader at Decathlon Sports Bangladesh, Dhaka, Bangladesh. He received Bachelor of Science in Industrial and Production Engineering from Khulna University of Engineering and Technology. He was General Secretary of IEM Robotics and CAD Club and vice president of DREAM (a voluntary blood donation society).

5:20 pm – 5:40 pm, Tuesday, December 27, 2022



Md. Belal Hossain
Manager, Supply Chain Management
PRAN-RFL Group
Dhaka, Bangladesh

Md. Belal Hossain is a Manager of Supply Chain Management at PRAN-RFL Group, Dhaka, Bangladesh. He was a Deputy Manager-Supply Chain Management, Supply Chain Officer and Supply Chain Executive at PRAN Foods Limited. Mr. Hossain received Bachelor of Science in Statistics, Executive MBA, Operations and Supply Chain Management from American International University-Bangladesh and Post Graduate Diploma on Supply Chain Management from ISCEA -International Supply Chain Education Alliance.

Panel Sessions

Panel on Industry 4.0

December 27, 2022, 2:00 – 3:40 pm – Room 1 (Onsite)

Panel Chair



Mr. Md. Abdullah Al Mahmud

Founder & CEO, Thriving Skills Limited Assistant Professor of MIS
Manarat International University, Dhaka, Bangladesh

Mr. Md. Abdullah Al Mahmud is Assistant Professor of MIS at the Manarat International University, Dhaka. He served as Coordinator of MBA Program, Department of Business Administration, MIU. Mr. Mahmud received BBA and MBA degree from the University of Dhaka. He is the founder of the Thriving Skills Limited, skills focused self-education platform in Bangladesh. He is skilled in Analytical Skills, Lecturing, Decision-Making, Instructional Design, Data Science, Blockchain Technology, Digital Marketing and Public Speaking. Mr. Mahmud received numerous professional certifications from IBM, Google, LinkedIn Learning, Udemy and many more. Mr. Mahmud launched digital promotional platform of MIU and play vital role in bringing ERP in the organization. Mr. Mahmud has exposed his leadership capacity by organizing Seminars and Leadership Development Program. He has introduced and organized university's first talent search competition "Scholar of MIU" and first presentation competition "MIU Master Presenter". His recent research activities include Business Professionals' Digital Competency in the Fourth Industrial Revolution Era, Digital Competency focused higher education for achieving SDG, Effects of Handheld devices on millennials reading habit, Challenges to implement Information Systems in the Business Organization, Perceptions of Blockchain Technology by Banking Professionals and many others. Mr. Mahmud served as a Humanitarian in Global Goodwill Ambassador. Mr. Mahmud demonstrated his research contribution in distinguished National Conferences in divergent Universities and International Conferences in India, Nepal, Bhutan and Malaysia.

Panel Speaker I



Shyamol B Das

Deputy Managing Director & Chief Information Officer
Meghna Bank Limited
Dhaka, Bangladesh

A business-technology strategist having focus on the customers experience and business partner's values while driving revenue using enhanced business processes and adaptive technologies. A leader making a difference through constant change management & business-technology alignment by applying innovative digital ideas to create sustainable and competitive platform for the unbanked people & relevant industry. He received B.Eng., Computer Science & Engineering, B. M. S. College of Engineering, Bangalore University, Bangalore, India and MSc Information Security, Royal Holloway, University of London, UK. He completed many international programs including Digital Business Strategy Program, MIT Sloan Executive Education, Oxford Fintech Strategy Program, Digital Innovations, Saïd Business School, University of Oxford, Fintech Executive Course, Harvard University, Data Science Essentials, UC Berkeley School of Information, Automation: Implementation in Business, The London School of Economics and Political Science (LSE), Certificate in Blockchain and Digital Currency, University of Cape Town and Digital Strategies for Business: Leading The Next-Generation Enterprise, Columbia Business School.

Panel Speaker II



Ziaul Haque

Managing Director
Trauma Center Hospital & Diagnostics Lab
Dhaka, Bangladesh

Ziaul Haque has over 20 years' experience in ISP, Telco, Pharma, Hospital, Diagnostics, Technical Training, NGO, Community radio station. He excels in starting up an institution from the ground up, and in change management, establishing corporate culture, accountability, compliance culture in the companies. He received B. Eng, Electronics & Communications from B. M. S. College of Engineering, Bangalore University, Bangalore, India and MSc, Broadband & Mobile Communications Networks from University of Kent, USA.

Panel Speaker III



Dr. Rafiuddin Ahmed

Associate Professor of Marketing, University of Dhaka
Founder of Innokids, Dhaka, Bangladesh

Dr. Rafiuddin Ahmed is a seasoned scholar, trainer, academic, pracademic, multipotentialite with ample experience in home and Australia on soft skills, life skills, tech skills and start up entrepreneurship. He has pursued his MBA from Dhaka University and Masters in MIB from the University of Melbourne and PhD from La Trobe University on futuristic Intra/Entrepreneurship (Kidspreneurship), Melbourne, Australia. He is one of the pioneers in the e-learning movement in Bangladesh and working as a strategist/trainer, pracademic, edupreneur, healthcare entrepreneur besides being an Associate Professor at the Department of Marketing, University of Dhaka, Bangladesh for the last 16 years. His areas of interest in research and consulting are: Digital marketing, data analytics, digital entrepreneurship, digital transformation (DX), Blockchain for Business) and employability for humans, Innovation

and disruption, exploring new professions and opportunities in augmented reality, virtual reality, artificial intelligence, robotics, IoT etc. Dr. Ahmed is also the founder of Innokids (a doctoral outcome-based kidspreneurship program). He is open to entrepreneurial and start-up accelerator mentorship (paid/pro-bono).

Panel on Lean Six Sigma

December 27, 2022, 4:00 – 5:40 pm – Room 1 (Onsite)

Panel Chair

**Sadique Salim**

**Vice President, Bangladesh, Six Sigma Management Institute
Lean Six Sigma Master Black Belt, Dhaka, Bangladesh**

Sadique Salim is one of the well-known resources in the field of Lean Six Sigma, Design Thinking, Innovation, Start UP acceleration and Business Excellence in the South Asia. He is known for transforming organization with little or limited resources. Sadique is one of the first Design Thinking, Six Sigma experts in his home country. He has been practicing Six Sigma in his work and as a consultant for last 16 years and helped set it up for many organizations. He is featured frequently as a guest speaker in ACCA Asia programs, universities, seminars where he talks about Design Thinking, Six Sigma, Operational Excellence, Business Transformation and Data Science. Sadique is a Certified Lean Six Sigma Master Black from Six Sigma Management Institute. He is also a Certified Project Management Professional for last 10 years from Project Management International, USA. He also received certification on Design Thinking from AHO (The Oslo School of Architecture and Design, Norway) and Designing

Better Services from Telenor Academy- Pebble Road (Thailand). Since 2014, Sadique has guided over 50+ organizations, both manufacturing and services across ten countries in their Organizational Excellence journey, Design Thinking implementation, TQM and Six Sigma implementation and known for his avid skills in successful Business Transformation and Change Management. He is also a frequent pro bono consultant for local start-ups and plays an active role in raising funds and investments for them. He also represents some global venture capitalist organizations in Bangladesh. He received Bachelor of Business Administration (BBA) from IBA, Dhaka University and MBA from North South University, Bangladesh. Salim is a Certified Lean Six Sigma Master Black Belt from Dr. Mikel J Harry Six Sigma Management Institute and Certified Project Management Professional from PMI.

Panel Speaker I

**Dr. Ziaul Adnan**

**Associate Professor, North South University
Dhaka, Bangladesh**

Dr. Adnan is a business academic and an industrial engineer with expertise in Supply Chain, Logistics, Operations Management, Quality Control, and Project Management. He is also a Certified Lean Six Sigma Black Belt. Dr. Adnan holds B.Sc. from the Bangladesh University of Engineering and Technology (BUET), Bangladesh, M.S. from the University of Southern Mississippi, USA, and Ph.D. from the University of North Carolina at Charlotte, USA. Currently, he is working as an associate professor of Management at the School of Business and Economics, North South University. Previously, he taught at Independent University, Bangladesh, and Ahsanullah University of Science and Technology. He also conducts workshops and invited lectures at renowned universities (e.g., The University of Dhaka (DU), BUET, etc.). His wide range of students includes both business and engineering graduates and supply chain

professionals. His current research interests include humanitarian logistics, supply chain pricing, lean six sigma applications, etc. He has published quality articles in internationally indexed and high impact factor journals such as the International Journal of Production Economics, Computers and Industrial Engineering, Journal of Revenue and Pricing Management, International Journal of Lean Six Sigma, etc. He attended many international conferences worldwide (e.g., USA, China, Bangladesh, etc.). He also serves as a reviewer for renowned journals published by Elsevier, Springer, Taylor & Francis, etc.

Panel Speaker II

**Md Saiful Azam**

**Deputy General Manager - Head of Fabric Dyeing, Yarn Dyeing, Printing & Finishing
Talha Group, Dhaka, Bangladesh**

Topic: Reduction of Basic Chemicals Consumption in Wet Processing

Md Saiful Azam has been leading Textile Wet processing Technology (Dyeing, Printing & Finishing) at Noman Terry Towel Mills Limited since 2015. He started his professional career in 2010 at ACS Textile (BD) Ltd. He has more than 12 years of experiences and is among very few who have vast practical knowledge in both exhaust and continuous dyeing processes. He set the benchmark in Dyeing RFT, water & Steam consumption, re-process, dyes-chemicals consumption, and so on. He is very specialized in cost-cutting, increasing efficiency, and reducing wastage. He is also leading many projects like Total Productive maintenance, increasing efficiency in weaving, and

Supply Chain management. He is aligned with utilizing rising technologies to streamline work processes, increase efficiency and reduce caseloads. He earned his B. Sc. in Textile Engineering focused on Textile Wet Processing from Southeast University. He is also doing M. Sc. in Textile Wet Processing from the Bangladesh University of Textiles. He is aiming for companywide Lean Six Sigma Deployment.

Panel Speaker III

**Md. Monwar Jahid**

**CSSBB (ASQ), MBA (DU)
Head of Operations
Zaber & Zubair Accessories Ltd. (Talha Group)
Gazipur, Dhaka, Bangladesh**

Topic: Production and Material Consumption Tracking Software Development with Bar Code

Md. Monwar Jahid, is a certified six sigma black belt holder who is experienced in Manufacturing, Operations, supply chain management, procurement, quality, process development and product innovation, Training and Development activities more than 6 years. He earned Bachelor of Business Administration (BBA) in Finance from

American International University Bangladesh. Also, he has completed Master of Business Administration (MBA) in international Business from

University of Dhaka, Bangladesh. As professional career he started in Pran-RFL Group Ltd-Dhaka, Bangladesh as a supply chain manager. He also worked in Noman Terry Towel Mills Ltd. as a business developer. He achieved certified six sigma black belt (CSSBB) from ASQ, USA. Also, he reduced waste and increased dying RFT by doing many six-sigma project in Noman Terry Towel Mills Ltd. He has implemented lean manufacturing tools and technique and established ISO 9001: 2015. He has knowledge on Oracle ERP implementation. He is an expert in printing and packaging product, production process and their material. Now he is working in Zaber & Zubair Accessories Ltd. Gazipur, Bangladesh as Head of Operations.

Panel on RMG Quality, Productivity and Safety

December 28, 2022, 2:00 – 3:40 pm – Room 1 (Onsite)

Panel Chair



Dr. Md. Mazharul Habib

Additional Director

Bangladesh Industrial Technical Assistance Centre (BITAC)
Dhaka, Bangladesh

Ph.D. in Total Quality Management (TQM)

An accomplished and experienced Mechanical Engineer with a major focus on manufacturing management, procurement, and tender process, and technical operations. Possess hands-on experience in highly competitive real pressure in a mechanical engineering and production-based environment with managerial skills. Capable of thriving under a high-pressure working environment to achieve uphill goals. Well organized and result oriented individual with proven ability to implement standards. Interested in engaging Operations and Management, Sales purposes job. Mr. Habib joined as an Assistant Engineer, promoted Executive Engineer. I had served at Production Control Department (PCD), Mold making shop and Machine & Tool shop in BITAC (Bangladesh Industrial Technical Assistance Center) Dhaka, a leading and pioneer mechanical based Industrial Engineering organization and an advanced training center. Mr. Habib has successfully completed few advance technical training. Mr. Habib had completed few trainings as 'Training of Trainers Program' based on Machine Shop Practice, NanYang Polytechnic Institute, Singapore. He also had taken technical training in India on Design of jigs & fixtures, Design of dies and molds, 'CNC manufacturing systems' held in CITD, Hyderabad, India. Mr. Habib also completed a training on human resources development in die and molds organized by AOTS, in Yokohama, Japan. Besides Md Mazharul Habib has also attended and successfully completed few training on Lean Six Sigma, Statistical Process Control, in UK.

Panel Speaker I



Mohammad Monower Hossain

Joint Secretary, Head of Sustainability at Brand BGMEA

Joint Secretary, Research, Development and Trade Information (RDTI)

BGMEA - Bangladesh Garment Manufacturers and Exporters Association
Uttara, Dhaka, Bangladesh

Mohammad Monower Hossain is currently working in BGMEA (Bangladesh Garment Manufacturers and Exporters Association) the apex trade body of Bangladesh RMG industry, as a Senior Deputy Secretary. Prior to this job, he worked for Bangladesh Export Processing Zones Authority (BEPZA) as the environmental counsellor in an IFC funded project at DEPZ. Monower worked for GIZ as a consultant for EMS and chemical management with a broader overview on RMG and textile sector particularly on sustainability issues. He is a certified EMS auditor, chemical management trainer and participated in different international and national conferences, workshops, seminars. Freelance writer, educator and contributor to the BGMEA publication named "The Apparel Story". Monower received Bachelor of Science (B.Sc.) in Environmental Science from Khulna University and Masters in Development Studies from BRAC University, Bangladesh. He attended 73rd UNEP/UNESCO/BMUB International Short Course on Environmental Management for Developing and Emerging Countries – Resource Efficiency - Cleaner Production and Waste Management", at Technical University of Dresden, Germany. He participated UNEP Fellowship on Circular Economy, Leadership Academy on Circular Economy (Environment), jointly organized by Switch Asia, UNEP/UNEP Fellowship on Circular Economy, Leadership Academy on Circular Economy (Environment), Jointly organized by Switch Asia, UNEP 2019 at Tsinghua University, China.

Diversity and Inclusion Panel sponsored by Ford Motor Company

December 28, 2022, 4:00 – 5:40 pm – Room 1 (Onsite)

Panel Chair



Annesha Ahmed, PMP

Director, Strategy and Business Development

Diesel Power Services Limited

Dhaka, Bangladesh

- PMP (Project Management Institute, USA), MBA in International Business (Dhaka University), BSc in CSE (BRAC University), Mandarin Language Efficient (IML-Dhaka University)
- 16+ Yrs. experience in Business Development Strategy, Project Management, Marketing, Business Research and Consultancy in Power Generation and CMMI Level 5 ITES companies.
- Currently working as Director, Strategy and Business Development, Diesel Power Services Limited, 30+ years old off Grid power supply management company with 80% of areacoverage in Bangladesh.
- Involved in Volunteering with Project Management Institute since 2013. Currently leading PMI Bangladesh Chapter as President.

Panel Speaker I



Masuda Hossain
Head of Regulatory Affairs
EDOTCO Bangladesh Co. Ltd

Masuda Hossain has diversified experience in Telecommunication industry at different capacity for more than 16 years. Currently she is working as Head of Regulatory Affairs, EDOTCO Bangladesh Co. Ltd focusing on telecommunication policy & regulations, compliance, audit, new business strategy development to fulfil organization's objectives and implementing corporate social responsibility programs to strengthen organization's brand. Earlier she was working as General Manager, Spectrum Management & Technical Regulations at Robi Axiata Limited. She worked in spectrum management for 3G/4G technology deployment in Bangladesh and also worked in spectrum allocation for new 5G technology. She worked as Radio Network Planning and Optimization Engineer at Robi Axiata Limited to meet network KPI and serve the customers with better coverage & quality. She is passionate about development of IoT based solutions thus developed Smart Meter Solution under R-venture Program (entrepreneurship contest program by Robi) to build digital society. She has acquired professional knowledge and project experience in developing IoT solutions and predictive analysis by AI/machine learning through several professional certification. Masuda Hossain has obtained B.Sc. in Electrical and Electronics Engineering (EEE) from Bangladesh University of Engineering and Technology (BUET) and completed MBA from East West University with major in Finance.

Panel Speaker II



Nasrin Jahan
Program Manager, Climate Change Programme
BRAC
Dhaka, Bangladesh

Experienced water resource and hydraulic design with a demonstrated history of working in the civil engineering industry. Skilled in AutoCAD, HEC-RAS, Hydrology, Environmental Engineering, and Water Supply. Strong community and social services professional with a M.Sc in disaster management and B.Sc. Engineering focused in Civil Engineering from Ahsanullah University of Science & Technology.

Panel Speaker III



Mohammed Selim Ullah
Head of Supply Chain Management
Summit Communications Ltd
Dhaka, Bangladesh

Supply Chain professional with 15 years of progressive accomplishments leading sourcing, operation and logistics. Strong strategic planner, problem solver and persuasive leader committed to consistently deliver desired results, demonstrated by 10 years of success in the telecom industry. He received Bachelor of Science (BSc), in Mechanical Engineering from Bangladesh University of Engineering and Technology and MSc, Energy Conversion and Management from Offenburg University of Applied Sciences, Offenburg, Baden-Württemberg, Germany.

Parallel Sessions

All Times are in Dhaka Time

MONDAY, December 26, 2022 (Day 1 – Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6
8:00 – 9:45 am	Undergraduate Paper Competition	Graduate Paper Competition	Design & Development	Energy Management	Business and Innovation	LSS and Quality Competition
10:00 – 11:45 am	Undergraduate Paper Competition	Master Thesis Competition	Artificial Intelligence	Advance Manufacturing Process	Business and Innovation	
12:00 – 1:45 pm	Undergraduate Research Competition	Competitions FYP, SCM, Doctoral and Poster Competition	Industrial Engineering and Operations Management Areas	Operations Management	Mechanical Engineering Areas	Undergraduate Student Paper Competition
2:00 – 3:45 pm	Undergraduate Research Competition	Quality Control and Management	Operations Research	Supply Chain Management	IE and OM Areas	
6:00 – 7:45 pm	Reliability and Maintenance Management / Engineering	Supply Chain Management	Ergonomics & Human Factors Engineering	Supply Chain Management	Sustainability and Green System	
8:00 – 9:45 pm	Sustainability and Environment	Lean, Safety and Health				

TUESDAY, December 27, 2022 (Day 2 – Onsite)

	Onsite Room 1	Onsite Room 2	Onsite Room 3	Onsite Room 4
8:00	Plenary I	Global Engineering Education I	Global Supply Chain and Logistics I	Technical Presentation I
10:05	Conference Chair Remarks - Dr. Md. Mosharrar Hossain, Head of IPE Department, Rajshahi University of Engineering & Technology (RUET), Bangladesh			
10:05	Welcome Address: Prof. Dr. M. Anwar Hossain, Former VC of IUT, Former VC of AUST and Former Professor of ME, BUET - Room 1			
10:30	Keynote I (Opening Keynote): Abdullah Talha, Managing Director of Noman Group of Industries & Talha Group, Dhaka, Bangladesh - Room 1			
11:00	Keynote II: Prof. Dr. Imtiaz Ahmed Choudhury, Professor of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh - Room 1			
11:30	Keynote III: Dr. Mohammad Uddin, Senior Lecturer at UniSA STEM, University of South Australia, Adelaide, Australia - Room 1			
12:00	Keynote IV: Dr. Ahm Shamsuzzoha, Faculty, University of Vaasa, Finland and Head of CoVE for Green Innovation, Vaasa, Finland - Room 1			
12:30	Keynote V: Dr. Md Nazrul Islam, PhD, Michigan State University, USA, Associate Editor, IEOM Society International, Toronto, Ontario, Canada - Room 1			
1:00	Lunch Break + Poster Competition			
2:00	Panel I – Industry 4.0	Global Engineering Education II	Global Supply Chain and Logistics II	Technical Presentation II
4:00	Panel II – Lean Six Sigma	Global Engineering Education III	Global Supply Chain and Logistics III	Technical Presentation III
8:00	8:00 – 10:00 pm: Conference Awards Dinners including Competition Winner Awards			

WEDNESDAY, December 28, 2022 (Day 3 – Onsite)

	Room 1	Room 2	Room 3	Room 4
8:00	Plenary II	Industry Solutions I	Global Business Management I	Technical Presentation IV
10:00	Conference Chairs and Organizing Committee Remarks - (Room 1)			
10:30	Keynote VI: Mohammad Maksud Haq, Manager, Stamping Quality, Metrology Center, Stellantis, Warren, Michigan, USA - Room 1			
11:00	Keynote VII: Dr. Kamrul Ahsan, Associate Professor, Department of Supply Chain and Logistics Management, RMIT University, Melbourne, Australia - Room 1			
11:30	Keynote VIII: Engr. Md. Mahmudur Rahman Manna, Chief Executive Officer, Maeashah Group, Former Technical Advisor of Bashundhara Food & Beverage Industries Ltd., Dhaka, Bangladesh - Room 1			
12:00	Keynote IX: Ferdous Sarwar, PhD, Professor and Head, Department of Industrial & Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh - Room 1			
12:30	Keynote X: Professor Dr. Zambari Bin Jamaludin, Professor, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka (UTeM), Durian Tunggal, Malacca, Malaysia - Room 1			
1:00	Lunch Break			
2:00	Panel III – RMG Quality, Productivity and Safety	Industry Solutions II	Global Business Management II	Technical Presentation V
4:00	Panel IV – Diversity and Inclusion Panel sponsored by Ford Motor Company	Industry Solutions III	Global Business Management III	Technical Presentation VI

December 26 (MONDAY) - Virtual

December 26 (MONDAY) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY

Undergraduate Student Paper Competition

Virtual Room 1

Session Chair: Prof. Dr. Md. Haider Ali Biswas, KU - Khulna University and Dr. Mohammed Harunor Rashid, RU - Rajshahi University

ID 27 The Effect of E-Servicescape and Brand Reputation on Customer Loyalty Mediated by Customer Satisfaction for Indonesian Multi-Service Platforms

Rayi Puspita Anggraini, Revino Garuda Nusa Antara, Ricky Ramadhan Darpacetta Yunus, Undergraduate Student, BBS Undergraduate Program, Binus University, Bekasi, Indonesia

Leo Andri Yulius Caesar, Senior Faculty Member, Binus University, Bekasi, Indonesia

ID 28 Prioritizing the Drivers and Barriers of Circular Economy (CE) implementation for E-waste management: A case study on refrigerator industries in Bangladesh

Sajib Ahmed, Rajshahi University of Engineering & Technology, Bangladesh

ID 52 Investigating the Effectiveness of Physical Exercises and Relaxation Technique: Occupational Stress and Health Problem Prevention Among Provincial Bus Drivers In Quezon City

Mark Loel Badilla, Christian De Leon, Bernard Lamsin, Nicole Makiyama, Joshua Pabilan, John Michael Vigilla, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 55 Employee Engagement and Satisfaction, Culture and Workload as Four Influencing Factors that Affects the Productivity and Work Performance Efficiency of Warehouse Workers in Taytay, Rizal

Kim Chazcele Dagamina, Paolo Brando Flores, Juan Miguel Fausto, Ireneo Elijah Gaudiel IV., Lemuel Niel Magbata, Klayne Janzel, Romalyn Galingan, Arianne Palisoc, Department of Industrial Engineering, College of Engineering and Architecture Technological Institute of the Philippines - Quezon City, Cubao, Quezon City, Philippines

ID 277 Redesign the Facility Layout with Systematic Layout Planning Method on Battery Workshop at PT GMF Aeroasia

Ardiansyah Rendi Naufalah, Moh Ridwan Enan Sanusi and Ardhy Lazuardy, Department of Industrial Engineering, University of Indonesia Depok, Indonesia
Nurhadi Wibowo, National Research and Innovation Agency - Republic of Indonesia (BRIN-RI), KST BJ Habibie – Puspiptek, Serpong, Indonesia

ID 284 Fabrication And Analysis of Flat Plate Solar Collector Using Nanofluid

Shantanu Saha, Chittagong University of Engineering & Technology, Bangladesh

ID 274 Faculty of Engineering's Canteen Layout Improvement Based on Systematic Layout Planning (SLP) and Ergonomic Approach

Jasmine Pradnya, Mahesti Layla Nursea, Regita Easter Bernanda and Shinta Febriyanti, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

8:00 – 9:45 am, MONDAY**Graduate Student Paper Competition****Virtual Room 2**

Session Chair: Prof. Dr. Mohammad Iqbal, SUST

ID 130 Social Media and the House of Representative of Indonesia Republic

J. Ellaine Sumeisey, M.A. Nugrahtami Yunianto, Meivy Wilnio, S. Jessica Wijaya, Department of Communication, BINUS Graduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 141 Computational Analysis of the effect of Mitral Regurgitation on Left Ventricular Mechanics

Subah Mubassira, Ukti Amal, Sheikh Mohammad Shavik, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 151 An Investigation on Approaches of Different Interactive Technologies on the Industrial Building Surface

Rabaya Nusrath Niva, Faculty of Engineering, Department of Architecture, Premier University, Chittagong, Bangladesh, M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh
Jannatul Ferdous Binti, M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

ID 152 An investigation on approaches of different interactive technologies on the industrial building surface

Rabaya Nusrath Niva, Faculty of Engineering, Department of Architecture, Premier University, Chittagong, Bangladesh, M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh
Jannatul Ferdous Binti, M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

ID 195 A Survey of Minimarket Maintenance Management System in Jakarta

Marissa Puspita, Panji Pratama Hendra Surya, Tamara Rahma Widowati, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 213 Dimensional Analysis of Maintenance Characteristics on Maintenance Implementation in Palm Oil Company

Fajar Marhaendra, Hanif Hamdani, Ilham Nur Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 258 Determination of Optimal Routes and Delivery Frequency of Vehicles with Minimum Transportation Cost

Armin Ali, Sirajum Munira and Khairun Nahar, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology (RUET), Rajshahi-6204, Bangladesh

ID 312 A Study on Impact of Covid-19 Pandemic on Mental Health of Students'

Abhishek H, MS Ramaiah University of Applied Sciences
Sivaranjini E, MS Ramaiah University of Applied Sciences
Reshma K J, MS Ramaiah University of Applied Sciences

8:00 – 9:45 am, MONDAY**Design & Development****Virtual Room 3**

Session Chair: Prof. Dr. Mohammad Sarwar Morshed, AUST

ID 6 Business Intelligent of Saluang Salted Fish Product by SMKN 2 Palangkaraya, Kalimantan, Indonesia

Riana Jogi Ahdareni M, Marketing Communication Program, Department of Communication, Faculty of Economics and Communication, Bina Nusantara University, Jakarta Indonesia 11480, Research Interest Group, Cross-Cultural Communication, Alam Sutra Campus, Banten 15143
Lilik Setyawati, SMK Negeri 2 Palangka Raya

ID 110 Design and Development of Water Tank Cleaning Machine in Water Refilling Stations

Engr. Danielle Joseph H. Buban, Dr. James Louie R. Meses, Ron Angelo P. Alisuag, College of Engineering, Manuel S. Enverga University Foundation, Lucena City, Quezon, Philippines

ID 72 Design of a Quick Acting Braking System for Vehicle Safety Enhancement

Joydev Karmakar Rahul, Souvik Chakraborty, Nabila Khayer, Md. Sazol Ahmmmed, Ar-Rafi Hriday, Md. Limon Mia and Khairun Nahar
Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Kazla, Rajshahi-6204, Bangladesh.

ID 155 Development of IoT Based Low-Cost Smart Inventory Management System

Md. Sadman Sakib, Ahmed Muhiminul Haider, Md. Mehedi Hasan Mojumder, Abid Easanul Alam, Shiful Islam Bappy and Ashiqur Rahman
Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka, Bangladesh

ID 29 Eco-friendly Packaging Design for SME's Eco-enzyme Product Branding

Yudhistya Ayu Kusumawati, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia 11480
Faishal Hilmy Maulida, Character Building Development Center, Public Relations, Faculty of Digital Communications and Hotel & Tourism,
Bina Nusantara University, Jakarta, Indonesia 11480
Mardhatilah Shanti, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 51 Design and Construction of an Obstacle Avoiding Line Follower Luggage Carrying Robot

Jowad Md Madha, Anika Nawar, Enamul Hoq, Department of Mechatronics Engineering, Faculty of Science and Engineering, World University of Bangladesh, Avenue 06 Lake Drive, Sector 17H, Uttara, Dhaka, Bangladesh

8:00 – 9:45 am, MONDAY**Energy Management****Virtual Room 4**

Session Chair: Dr. Muammer Din Arif, MIST

ID 73 Considerations in the Design of an Efficient Network to Transport Perishable Crops

Joydev Karmakar Rahul, Souvik Chakraborty, Nabila Khayer, Md. Foysal Uddin and Maliha Rajwana Haque
Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Kazla, Rajshahi-6204, Bangladesh

ID 174 Geothermal for Sustainable Green Energy in Indonesia

Djoko Nurprawito and Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 146 Utilization of Waste Heat Energy through low-cost heat exchanging systems to promote sustainability

Md. Sadman Sakib, S. M Rumman Ahmed, Ferdous Jahan, Shafin Mustafa Chowdhury, Mehrab Hossain Limon, Redwan Abdullah
Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka-1205, Bangladesh

ID 47 Simulation and Modeling of an Energy Saving Electro-Hydraulic Power Steering System

Robin Barua and Md. Mizanur Rahman, Institute of Energy Technology, Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh
Md. Tazul Islam and Syed Masrur Ahmmad, Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET) Chattogram, Bangladesh

ID 46 Simulation of an Energy Saving Egg Incubator

Md. Mizanur Rahman and Robin Barua, Institute of Energy Technology, Chittagong University of Engineering & Technology (CUET) Chattogram, Bangladesh
Md. Tazul Islam, Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh
Nur Mohammad, Department of Electrical and Electronic Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram, Bangladesh

ID 332 Socio Renewable Energy and Socio Solar Energy: Indonesia Trend

Paisal Halim, Sekolah Pascasarjana Universitas Nasional, Jakarta, Indonesia
Syamsiah Badruddin, Faculty of Social and Political Science, Universitas Nasional, Indonesia
Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia
Agus Sukoco, Department of Management, Narotama University, Indonesia
Muhammad Isradi, Department of Civil Engineering, Universitas Mercu Buana, Indonesia
Sugeng, Department of Electrical Engineering, Universitas Islam "45" Bekasi, Indonesia
Muhammad Ashlyzan Razik, Faculty of Entrepreneurship and Business, Universiti Malaysia Kelantan, Kota Bharu, 16100, Malaysia

8:00 – 9:45 am, MONDAY**Business and Innovation****Virtual Room 5**

Session Chair: Dr. Md. Mosharraf Hossain, RUET

ID 70 Against the Uncertainty: Analysis and Formulation of Local Fashion Business Strategies in the Post-Pandemic Era

Febby Candra Pratama and Adian Arya Pradana, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

ID 4 Antecedents & Consequences of Teaching Factory Development for Creative Products-Ginger Instant Herbal Beverage at SMK Muhammadiyah 1 Metro Lampung-Indonesia

Arsiyanti Lestari and Amir Fikri, Communication Department, Faculty of Economic and Communication, Bina Nusantara University, Jakarta – Indonesia, Research Interest Group Cross Cultural Communication, Bina Nusantara University, Jakarta - Indonesia
Vini Mariani, School of Information System, Bina Nusantara University, Jakarta – Indonesia, Research Interest Group Cross Cultural Communication, Bina Nusantara University, Jakarta - Indonesia
Rohaniya, SMKS Muhammadiyah 1, Metro - Lampung

ID 7 Digital Business Analysis of SMKN Sangatta, Kutai

Riana Jogi Ahdareni M, Mass Communication Program, Communication Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta Indonesia 11480, Research Interest Group Cross-Cultural Communication, Bina Nusantara University, Banten 15143
Puji Astuti Rahayu Effendi, SMK Negeri 2 Sangatta Utara, Kutai Timur, East Kalimantan Timur

ID 159 Factors influencing organizational behavior in marketing firms: A systematic review

Enrique Arellanos-Huaylinos, Gisela Analy Fernandez-Hurtado, Business Faculty, Universidad Privada del Norte, Lima, Peru
 Franklin Cordova-Buiza, Research, Innovation and Social Responsibility Department, Universidad Privada del Norte, Lima, Peru, Faculty of Business Sciences, Continental University, Huancayo, Peru

ID 160 Factors of organizational behavior and job satisfaction: A correlational analysis in event companies

Elizabeth Mayuri-Ramos, Universidad de Ciencias y Humanidades, Lima, Peru
 Angel Gabriel Melendez-Villanueva, Universidad Autonoma del Peru, Lima, Peru
 Yuri Vanessa Conde-Beltran, Universidad Cesar Vallejo, Lima, Peru
 Woendy Peralta-Ugaz, Business Faculty, Universidad Privada del Norte, Lima, Peru
 Franklin Cordova-Buiza, Research, Innovation and Social Responsibility Department, Universidad Privada del Norte, Lima, Peru, Faculty of Business Sciences, Continental University, Huancayo, Peru

ID 157 Factors that influence the quality of customer service in telecommunications companies

Luz Angelica Allpoc-Flores, Sarela Araseli Morales-Durand, Gisela Analy Fernandez-Hurtado, Business Faculty, Universidad Privada del Norte, Lima Peru
 Franklin Cordova-Buiza, Research, Innovation and Social Responsibility Department, Universidad Privada del Norte, Lima, Peru, Faculty of Business Sciences, Continental University, Huancayo, Peru

ID 281 Technology acceptance model for MSME Human Resource

Emi Suwarni, Department of Management, Universitas Teknokrat Indonesia (UTI), Bandar Lampung, Indonesia
 Asmawati, Department of Magister Management, Universitas Abulyatama, Banda Aceh, Indonesia
 Imam Ahmad, Department of Information Technology, Universitas Teknokrat Indonesia (UTI), Bandar Lampung, Indonesia
 Debby Alita, Department of Information Technology, Universitas Teknokrat Indonesia (UTI), Bandar Lampung, Indonesia

8:00 – 9:45 am, MONDAY**Lean Six Sigma and Quality Competition****Virtual Room 6**

Session Chair: Session Chair: Sadique Salim, Vice President, Bangladesh, at Six Sigma Management Institute

ID 319 Quality Improvement of Fast-Food Waiting Times for Chick-fil-A

Vyoma Teja Sajja, Ilir Ivezaj, Abdulaziz Alharbi and Nauman Abdul Muqeeth, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 320 Analysis of Effect of Scaling on Dimensional Accuracy of 3D Printed Part Using DOE

Sai Chand Gogisetty, Bharani Beemanapally and Abhishek Dimpalbhai Shah, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 321 Quality Control in Injection Molding: A Real Time Application of Lean Tools

Sai Abhijith Medavarapu, Jayanth Mummalaneni, Sabin Mathew, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 322 Analysis of the effects of temperature on the aluminum engine block deep hole drilling

Harshavardhan Goud Gunugurthi, Syed Abdur Rahman Nadeem and Sushil Dev Kumar. S, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 323 Linear Regression to Understand Battery Degradation and Vehicle Mileage in Electric Vehicles

Anjan Kumar, Priyank Shah, and Kelly Slazinski, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 324 Predictive and Condition Based Maintenance for Rental Equipment

Jacob DePierre, Sriram Kumar Maddu, Kevin McCabe, and Joseph Russo, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 325 Quality Control Case Study on Foundry Industry

Gaurav More, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 326 Comparative Analysis of Car Noise

Chaturya Gadde, Evelyn Roen and Karthik Saladi, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 327 Qualitative Analysis of gap present between fender and bumper in a car

Harsha Nellikonda, Rakesh Panguru, and Pavan Veluturla, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 31 Edge Colouring Process Improvement by DMAIC Methodology – Efficiency Perspective

Md. Sajib Milki, Department of Industrial Engineering (IE), BGMEA University of Fashion & Technology (BUFT), Dhaka – 1230, Bangladesh
 Department of Industrial and Production Engineering (IPE), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

December 26 (MONDAY) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, MONDAY

Undergraduate Student Paper Competition

Virtual Room 1

Session Chair: Prof. Dr. Md. Haider Ali Biswas, KU and Dr. Mohammed Harunor Rashid, RU - Rajshahi University

ID 58 Perceived Employee Engagement, Collaborative Capability, and Service Tenure as Correlates of Employee Performance: A Multivariate Analysis

Girle America, Mary Leinel De Palma, Fiona Mae Demalata, Robert Ryan Denila, Bheatrixe Inocencio, Sharmae Jayne Oblino and Kevin Arman Ramos, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 71 Overall Thermal Performance Due to MHD Conjugate Mixed Convection Flow in a Triangular Domain with Heat Conducting Rotating Cylinder

Fayes Us Shoaib, Md Tusher Mahmud and Sumon Saha, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 92 Mechanical Properties of Chemically Extracted Bagasse Fiber

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

M. Azizur Rahman, Dr. Mad. Shahnawaz Bhuiyan, Md. Nasif Ul Hossain, Azhar Mahmud, Azhar Mahmud, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 162 Literature Review on Ergonomic Handgrip for Public Transportation

Afrida Kabir, Faiyaj Kabir, Saief Newaz Chowdhury, Sharmin Akter Urmee, A R M Harunur Rashid, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Boardbazar, Gazipur, Dhaka, Bangladesh

ID 257 Optimizing Layout and Material Handling Cost: A Case Study of a Small and Medium-Sized Enterprise in the Food and Beverage Industry

Hanif Rahman Arifin, Muhammad Daffa Farras, Muhammad Fawwaz Robbani, Muhammad Habiburrahman and Nathaniel Dave Anggita Lumban Batu, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 279 Effect of Baffle Spacing on Shell Side Heat Transfer Enhancement of a Shell and Tube Heat Exchanger

Protap Sarker, CUET, Bangladesh

10:00 – 11:45 am, MONDAY

Master Thesis Competition

Virtual Room 2

Session Chair: Prof. Dr. Mohammad Iqbal, SUST

ID 11 Building a Behavioral Model of Online Transportation Selection Among Students in Palembang City

Kgs Abdur Rahman Hakim, Masters Student of Master of Civil Engineering Postgraduate Program, Universitas Bina Dharma, Palembang, Indonesia. Firdaus Firdaus, Department of Civil Engineering Faculty of Engineering, Universitas Bina Dharma, Palembang, Indonesia. Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia

ID 36 Prognostics and Health Management on MASTER-T Radar Maintenance Using Failure Mode Effect and Criticality Analysis Method to Predict Critical Failures and Extend Life

Hendrawan Candra Purnama, Master Graduate Program in Industrial Engineering Department, Faculty of Engineering Universitas Sebelas Maret Surakarta, Jl. Ir. Sutami, 36A, Surakarta 57126, Indonesia

Susy Susmartini and Lobes Herdman, Industrial Engineering Program, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Jl. Ir. Sutami, 36A, Surakarta 57126, Indonesia

ID 93 Servitization of Business Strategy Using Lean Six Sigma Approach

Firqi Abdillah, Zulkarnain, Faculty of Industrial Engineering, Universitas Indonesia, Depok 16424, Indonesia

ID 134 Sustainable Supplier Selection Using the Multi-Attributive Border Approximation Area Comparison (MABAC) and F-MABAC in Chemical Industry

Fazrul Hamonangan Tanjung, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia. Farizal F, Senior Lecturer, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 232 The impact of implementing the Heijunka leveling system to reduce WIP

Khanyisile Sineke, University of Johannesburg, South Africa

10:00 – 11:45 am, MONDAY

Artificial Intelligence

Virtual Room 3

Session Chair: Shahriar Tanvir Alam, MIST - Military Institute of Science and Technology

ID 129 A Machine Learning Approach to Determine the Motivating and Demotivating Factors in Online Learning Management Systems

Anik Mazumder, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh

Banna Rani Das, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Dr. Ferdous Sarwar, Professor and Head of the Department, Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 186 Face Mask Recognition Using Deep Learning with Mobilenetv2 Architecture to Monitor Use of Mask According to Health Protocol

Muhammad Ilman Zidni, Yusuf Priyandari, and Pringgo Widyo Laksono, Department of Industrial Engineering, Universitas Sebelas Maret (UNS)

Surakarta, Indonesia

ID 8 Performance Analysis of Bidirectional Associative Memory (BAM) and Feed Forward Multilayer Error Back-Propagation Network (BPN) (Neural Netowrk) for Alphabetic Character Recognition by Applying Digital Image Processing and Neural Network
Mainur Rahman Tarafder, IICT, BUET

ID 177 Traffic Light Duration Setting for Ambulance Waiting Time Optimization Using Reinforcement Learning Model and Particle Swarm Optimization

Muhammad Junus Athariq, Yusuf Priyandari, and Pringgo Widyo Laksono, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 63 Design of a Bluetooth Controlled Food Delivery Waiter Robot for Restaurants

Jowad Md Madha, Anika Nawar, Md Mahmudul Hasan, Dr. Md Mizanur Rahman, Department of Mechatronics Engineering, Faculty of Science and Engineering, World University of Bangladesh, Avenue 06 Lake Drive, Sector 17H, Uttara, Dhaka, Bangladesh

ID 39 Development and Implementation of Computer Aided Learning Tool for PIC18F4550 Microcontroller

Mainur Rahman Tarafder, Ex Post Graduate Student, IICT, BUET, Dhaka

ID 295 Effective road intersection geometric re-design and traffic control strategies to minimize congestion: A literature survey

Zanele Mpanza, Department of Industrial Engineering, University of South Africa, Johannesburg, South Africa

Robert Mutyavavire, Department of Mechanical and Industrial Engineering, University of Johannesburg, Johannesburg, South Africa

ID 318 Using Artificial Intelligence To Improve Fire Detection Systems In The Workplace And Sending Information To The Nearest Fire Brigade Based On The Intensity

Toukir Ahamed, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

10:00 – 11:45 am, MONDAY

Advance Manufacturing Process

Virtual Room 4

Session Chair: Mr. Mahamudul Hassan, NITER - National Institute of Textile Engineering and Research

ID 115 An Ensemble Machine Learning for Predicting Tensile Property of Fiber Reinforced Stereolithography

Md Shihab Shakur, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh

Dr. Md. Shahnawaz Bhuiyan, M. Azizur Rahman, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 161 Investigation of Ceramic Component Mechanical Properties Fabricated with Fused Deposition Modeling Process

Rafid Shamsul Karim, Fahim Ahmad, Shaikh Zawad Hasan, Arafath Mohiv, Department of Mechanical and Production Engineering (MPE)

Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Shihab Shakur, Department of Industrial Production Engineering (IPE), Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh

Dr. Muhommad Azizur Rahman, Dr. Md. Shahnewaz Bhuiyan, Department of Mechanical and Production Engineering (MPE)

Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 114 An Intelligent Hybrid Manufacturing System for Surface Quality Monitoring with Industry 4.0

Pervez Hossain, Fahim Al-Rashid Chowdhury, SM Rahaman, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md Shihab Shakur, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh

Dr. M. Azizur Rahman, Dr. Md Shahnewaz Bhuiyan, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 32 Applications and Limitations of Industrial Internet of Things (IIoT) in Different Industrial Sectors

Nuzhat Tabassum Nishat, Department of Computer Science & Engineering (CSE), Uttara University (UU), Uttara, Dhaka, Bangladesh

Farzad Hossain, Department of Mechanical and Production Engineering (MPE), Islamic University of Technology (IUT), Boardbazar, Gazipur, Dhaka, Bangladesh

ID 147 Development of Low-cost Automated Guided Vehicle (AGV) to Step towards Industry 4.0

Md. Sadman Sakib, Asif Iqbal, Saib Khan Sami, Homaayra Anjum Hoque, Istiak Ahmed, Md. Abu Saleh Shafil, Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka, Bangladesh

ID 348 Malaysia's Manufacturing Industry and Incentives Factors in Retaining Employees Commitment

Nurul Syahirah Senin, Department of Technology and Management, Faculty of Technology Management, and Business, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Batu Pahat, Malaysia

Umi Kartini Rashid, Department of Technology and Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Batu Pahat, Malaysia

10:00 – 11:45 am, MONDAY

Business and Innovation

Virtual Room 5

Session Chair: Mrs. Shanta Saha, SUST - Shahjalal University of Science and Technology

ID 158 Influence of recruitment and selection processes on human talent management in private companies

Brenda Kamila Goicochea-Bendezu, Chaina Colos-Palma, Gisela Anally Fernandez-Hurtado, Business Faculty, Universidad Privada del Norte, Lima, Peru

Franklin Cordova-Buiza, Research, Innovation and Social Responsibility Department, Universidad Privada del Norte, Lima, Peru, Faculty of Business Sciences, Continental University, Huancayo, Peru

ID 156 Organizational behavior in small and medium enterprises: A systematic review and future research agenda

Shesira Belen Mamani-Ildelfonso, Vanessa Noemi Martinez-Quispe, Gisela Analy Fernandez-Hurtado, Business Faculty, Universidad Privada del Norte, Lima, Peru

Franklin Cordova-Buiza, Research, Innovation and Social Responsibility Department, Universidad Privada del Norte, Lima, Peru, Faculty of Business Sciences, Continental University, Huancayo, Peru

ID 12 SWOT Analysis of Shipbuilding Industry of Bangladesh

Khandakar Akhter Hossain, Dept of Naval Architecture & Marine Engineering, MIST, Bangladesh

ID 215 A systematic review of construction material caused by demolition: a global perspective

Hadid Heidari, Department of Management, Islamic Azad University- Central Tehran Branch, Tehran, Iran

Soma Gholamveisy, Department of Industrial Engineering, Islamic Azad University of South Tehran branch, Tehran, Iran

ID 3 The Adoption of Technology in Efforts to Develop Teaching Factory to Produce a Creative Digital Printing Product at SMKS PK Yapis Timika, Papua Indonesia (SWOT Analysis Approach)

Arsiyanti Lestari, Ulani Yunus and Amir Fikri, Communication Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta – Indonesia, Research Interest Group Cross Cultural Communication, Bina Nusantara University, Jakarta - Indonesia

Vini Mariani, School of Information System, Bina Nusantara University, Jakarta – Indonesia, Research Interest Group Cross Cultural

Communication, Bina Nusantara University, Jakarta - Indonesia

Rohaniya, SMKS Muhammadiyah 1, Metro - Lampung

ID 10 The influence of behavioral factors on SME's owner's intention in using e-commerce

Emi Suwarni, Lia Febria Lina, Department of Management, Universitas Teknokrat Indonesia (UTI), Bandarlampung, Indonesia

Kristina Sedyastuti, Department of Management, Universitas Kanjuhuruan, Malang, Indonesia

ID 33 The Influence of The Importance of Financial Literacy on Sstudent Behavior In Managing Finances

Defia Riski Anggarini, Berlantina Permatasari, Department of Management, Universitas Teknokrat Indonesia (UTI), Bandarlampung, Indonesia

Fajrin Satria Dwi Kesumah, Department of Management, Universitas Lampung, Bandarlampung, Indonesia

ID 333 Socio Education and Sustainable Education: Indonesia Trend

Syamsiah Badruddin, Faculty of Social and Political Science, Universitas Nasional, Indonesia

Paisal Halim, Sekolah Pascasarjana Universitas Nasional, Jakarta, Indonesia

Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia

Agus Sukoco, Department of Management, Narotama University, Indonesia

Muhammad Isradi, Department of Civil Engineering, Universitas Mercu Buana, Indonesia

Sugeng, Department of Electrical Engineering, Universitas Islam "45" Bekasi, Indonesia

Fajar Prihesnanto, Department of Civil Engineering, Universitas Islam "45" Bekasi, Indonesia

Abdul Talib Bon, Faculty of Technology and Business Management, Department of Production and Operations Management, Universitas Tun

Hussein Onn Malaysia, Parit Raja, Malaysia

December 26 (MONDAY) - Session: 12:00 – 1:00 pm

12:00 – 1:45 pm, MONDAY

Undergraduate Research Competition

Virtual Room 1

Session Chair: Dr. Abu Taher, EUB - European University of Bangladesh:

ID 53 Investigating the Effectiveness of Physical Exercises and Relaxation Technique: Occupational Stress And Health Problem Prevention Among Provincial Bus Drivers In Quezon City

Mark Loel Badilla, Christian De Leon, Bernard Lamsin, Nicole Makiyama, Joshua Pabilan, John Michael Vigilla, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 66 Reverse engineering and re-design of a conrod

Marco Freddi and Patrich Ferretti, Department of Industrial Engineering, University of Bologna, Bologna, BO 40136, ITA

ID 122 Three-Dimensional Printed Jute Fiber Reinforced Composite Using Digital Light Processing Stereolithography Process

Arafath Mohiv, Md Amjad Hossain Khan, Jonaed Hossain, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. Mad. Shahnawaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 125 The Influence of Weight Fraction on Tensile Strength of Three-Dimensional Printed Jute Fiber Reinforced Composite

Md Amjad Hossain Khan, Jonaed Hossain, Arafath Mohiv, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. Mad. Shah Nawaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 253 Redesigning Electronic Recruitment Platform to Optimize the Utilization of the Users in the Philippines: Applying Ordinal Regression Analysis

Lovynne Claire Montojo, Technological Institute of the Philippines, Philippines

12:00 – 1:45 pm, MONDAY

Competitions

Virtual Room 2

Session Chair: Sadique Salim, Vice President, Bangladesh, at Six Sigma Management Institute

POSTER COMPETITION

ID 113 Design, Fabrication, and Analysis of a Prototype Electric Bike

Fahim Foysal Arnob, Md Shahnewaz Khan Department of Mechanical Engineering, MIST, Bangladesh

ID 138 Design, Fabrication, and Performance Analysis of An Eco-friendly Gutter Cleaner

Abu Saleh Md. Nakib Uddin, Student, Military Institute of Science and Technology, Bangladesh

Fahima Akter Azrin, Student, Military Institute of Science and Technology, Bangladesh

M.M. Aflatun Kawsar, Military Institute of Science and Technology, Bangladesh

Adib Bin Rashid, MIST, Bangladesh

ID 184 Computing Teaching Apps, Methodologies, and Modules in Engineering as Key Enabling Technological Learning Breakthroughs

Mohamed Edali, Asma Milad, Zaed Sahem, Walid Alaswad, Ali Bseibsu, Faraj Ben Rajeb, Abduslam Sharif, Department of Chemical and Petroleum Engineering, Elmergib University, Elkhoms, Libya. Creativity Group for Technical Services, Ottawa, Ontario, Canada

Ali Elkamel, Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, Canada

SUPPLY CHAIN COMPETITION

ID 44 Sustainable Supply Chain in Textile Industry

Mohammed Raihan Uddin, Md Mamunur Rashid, Department of Industrial & Production Engineering, Bangladesh University of Textiles, Dhaka-1208, Bangladesh

ID 223 A study on the Measures taken to sustain the flexibility of a global supply chain during the pandemic

Abdullah Al Rahi, Supply Production Leader, Decathlon, Bangladesh

Qausar Rahman, Data Analyst Quality and Logistics, Carhartt WIP, Bangladesh

Eshayat Hasan Chowdhury, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh

FINAL YEAR PROJECT (FYP) / SENIOR DESIGN PROJECT COMPETITION

ID 229 Design and Manufacture of Prosthetic Bionic hand Controlled via MYO-Sensors

Gopal Mandal, IUBAT, Bangladesh

DOCTORAL / PH.D. DISSERTATION COMPETITION

ID 235 Quantification of the Strategic Fit Between Process Choice Criteria and Production Systems

Vishwas Dohale, Research Fellow, Operations and Supply Chain Management, National Institute of Industrial Engineering (NITIE), Mumbai, India
Business Analyst, Goldratt Consulting, India

12:00 – 1:45 pm, MONDAY

Industrial Engineering and Operations Management Areas

Virtual Room 3

Session Chair: Mr. Sayem Ahmed, AUST

ID 191 Analysis of Multi Criteria Classification and Inventory Planning on Flexible Packaging Industry

Chyntia Devi Octaviany, Dendi P Ishak, Department of Industrial Engineering, Univesity of Indonesia, Depok, Indonesia

ID 13 Assessing the flexibility dimensions of RMG supply chain: An exploratory study

A.B.M. Abdul Malek, Mohammad Iqbal, Chowdhury Jony Moin, Dept. of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh

ID 133 Demand Forecasting for Catering Bento by Machine Learning Considering Popularity Estimation Based On Culinary Similarity

Koki Kitabayashi, Department of Industrial Engineering and Management, Graduate School of Engineering, Kanagawa University, Kanagawa, Japan
Kazuki Ota and Hideki Katagiri, Department of Industrial Engineering and Management, Faculty of Engineering, Kanagawa University, Kanagawa, Japan

ID 42 Efecto de la implementación de Herramientas Lean y el desempeño operacional en empresas Manufactureras: Una revisión Literaria

Juan Carlos Herrera Vega, Departamento de Ingeniería Industrial, Fundación Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia

ID 212 Exploration and Prioritization of Rapid Prototyping Impediments for Sustainable Manufacturing: A Fuzzy AHP Application

Kshitij Gupta, Zakir Husain College of Engineering and Technology, India

Syed Hassanul Haque, ZHCET Aligarh Muslim University, India

Faisal Talib, Aligarh Muslim University, India

ID 117 Layout Optimization and Workplace Engineering for Improving Manufacturing Performance with Reference to A RMG Industry
Shanjoy Chowdhury, Md. Asadujjaman and Md. Mosharraf Hossain, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

ID 259 Facility Layout Planning Optimization in Local Retail Store Using Systematic Layout Planning

Abigail Naomi Ariela, Fatimah Az-Zahra Qorib, Ruth Vanesa Hutagalung and Wynona Salsabila Hafiz, Undergraduate Student of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
Arief Nurdini, Doctoral Student of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

12:00 – 1:45 pm, MONDAY

Operations Management

Virtual Room 4

Session Chair: Prof. Dr. Engr. Md. Mamunur Rashid, BIM - Bangladesh Institute of Management

ID 140 Aircraft Selection for Cargo Purposes in Air Charter Company Using the Fuzzy AHP – TOPSIS Method

Luhur Prakoso Prabowo, Teuku Yuri M. Zagloel, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia (UI) Jakarta, Indonesia

ID 116 An Artificial Bee Colony Algorithm for Assembly Line Worker Assignment and Balancing Problem

Aslihan Karas Celik, Feristah Ozcelik, Department of Industrial Engineering, Eskişehir Osmangazi University, Eskişehir, Turkey

ID 136 Reducing Manufacturing Lead Time to become competitive in Business: A Case Study in Footwear Industry

Refati Zannat Ananna, Janifar Afiat Wafa and Md. Mosharraf Hossain, Department of Industrial & Production Engineering, RUET, Rajshahi, Bangladesh

ID 285 Vendor Selection as Strategy for Competitive Advantage: A study on National importance institutions in India

Dr. Sharif, Department of I.A, Indian Institute of Technology, Kanpur, India
Vinayak A. Drave, Department of Operations Management & Supply Chain, Jindal Global Business School, O.P. Jindal Global University, India
Hanif, Department of Business Administration, ABV-IIITM Gwalior, India

ID 226 Incorporation of Artificial Intelligence in Eradicating HIV Aids and Cancer

Tatenda Talent Chingono, University of Johannesburg, South Africa

ID 275 Optimizing Efficiency, Flow of Serving, and Layout of DIPS Indonesia using Systematic Layout Planning (SLP) Method

Claresta Yasmine, Gloria Fenny Delavina Simanjuntak, Rizki Estu Rahmaisyaq and Siti Lubna Nazihah, Department of Industrial Engineering Universitas Indonesia, Depok, 16424, Indonesia
Ardhy Lazuardy, Assistant Professor, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 329 Optimization of Determining the Location of the Battery Swap Station for the Electric Motorcycle used by the Online Transportation Company (PT X) by Paying Attention to the Use of Solar Energy as an Energy Source

Laras Safitri and Farizal F, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

12:00 – 1:45 pm, MONDAY

Mechanical Engineering Areas

Virtual Room 5

Session Chair: Dr. Jamal Uddin, CUET - Chittagong University of Engineering & Technology

ID 56 Microstructural Study of Locally Produced Marine Propeller

Ismail Hussain Sian, Abdullah Al Noman, Billal Bin Amin, M. Azizur Rahman, Md. Shahnewaz Bhuiyan, Department of Mechanical & Production Engineering, Ahsanullah University of Science & Technology, Tejgaon, Dhaka-1208, Bangladesh

ID 193 Risk Analysis and Risk Mitigation Strategies in Coal Mining Activities Using the FMECA-Fuzzy TOPSIS Method

Jihan Aulia, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia
Dr. Dendi P. Ishak, B.Sc., MSIE., Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

ID 197 Analysis of Maintenance Management Implementation in VAC System

Achmad Gunawan Wibisono, Amiral Rasyid, and Rizal Palapa, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Depok, 16424, Indonesia

ID 142 Thermodynamic Analysis of Integrated Oxy-combustion Supercritical CO2 Power Cycle with Concentrated Solar Power

Foyez Ahmad, Fardin Mahatab, Sajjad Mahmud, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT) Board Bazar, Gazipur, Dhaka, Bangladesh

ID 37 Comparative Study on the Wall Shear Stress Distribution in Coronary Bifurcations using Finite Element Analysis

Ashiqur Rahman, Sheikh Mohammad Shavik, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

12:00 – 1:45 pm, MONDAY

Undergraduate Student Paper Competition

Virtual Room 6

Session Chair: Judging Committee

ID 278 Enhancement of Specific Heat Capacity of Binary Carbonate Salt Using CuO and ZnO Nanoparticles

Shantanu Saha, Chittagong University of Engineering & Technology, Bangladesh

ID 280 Experimental Investigation of Water Hammer Effect in Pipeline System

Protap Sarker, CUET, Bangladesh

ID 313 Dynamics of Norovirus Infection from Contaminated Food Products

Protik Deb, Shantunu Mondal, Sayed Shajalal Uddin and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Bangladesh

ID 314 A Mathematical Model Applied to Investigate the Effect of Industrial Whaling on Global Warming

Shantunu Mondal, Protik Deb, Rama Rani Paul and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Bangladesh

ID 316 Analysis and Simulation of the tuberculosis Disease Dynamic Transmission Channel Model in weak and Strong immune Population

Rama Rani Paul, Shantunu Mondal, Sayed Shajalal Uddin and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Bangladesh

ID 317 A Mathematical Model for The Speared Of Two Political Parties On The Basis Of Switching

Sayed Shajalal Uddin, Shantunu Mondal, Protik Deb, Rama Rani Paul and Md. Haider Ali Biswas, Department of Mathematics, Science Engineering and Technology School, Khulna University, Bangladesh

December 26 (MONDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY**Undergraduate Research Competition****Virtual Room 1**

Session Chair: Dr. Md. Mizanur Rahman, WUB - World University Bangladesh:

ID 126 Effect of the Deposition Layer Three-Dimensional Printed Jute Fiber Reinforced Composite

Jonaed Hossain, Arafath Mohiv, Md Amjad Hossain Khan, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST) Dhaka, Bangladesh

Dr. Mad. Shahnawaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 137 Effect of Hypertrophy, Passive Stiffness and Contractility on Myocardial Strain in HFpEF: A Computational Approach

Sazzad Hossain, Arafat Anzir, Dr. Sheikh Mohammad Shavik, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 145 Design and Development of Smart Blind Stick for Visually Impaired People

Md. Omar Al Javed, Zayed Ur Rahman, Khondoker Safin Kaosar Saad, Md. Salahuddin Ashrafi, Syeda Fahima Akter, Adib Bin Rashid, Department of Industrial and Production Engineering, Military Institute of Science and Technology, Dhaka, Bangladesh

ID 176 Design, fabrication and performance analysis of plastic extrusion machine (vertical injection molding machine) for fabrication of plastic composite tiles from waste plastic

Mohammad mehedi Hasan Mehedi, Military Institute of Science and Technology, Dhaka, Bangladesh

Akter Mahmud Shihab Mahin, Military Institute of Science and Technology, Dhaka, Bangladesh

2:00 – 3:45 pm, MONDAY**Quality Control and Management****Virtual Room 2**

Session Chair: Dr. A. B. M. Mainul Bari, BUET - Bangladesh University of Engineering and Technology

ID 120 Implementation of Statistical Process Control in Aluminum Manufacturing Industry: A Case Study in a Bangladeshi Company

M.M Fahim Siddiquee, Anik Mazumder, Md. Emtiaj, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 45 P-Service Quality Model Development for Customer Satisfaction and Loyalty in Mobile Banking (Case Study: Syariah Bank X in Indonesia)

Faiz Shafwan Hanif, Fakhri Fahma, Eko Pujiyanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 127 Building an Industrial Autonomous Line-Following Robot through the Design and Construction Processes

Md. Mahmudul Hasan, Sumiya Shahria, Md. Habib Ullah, Department of Mechatronic Engineering, Khwaja Yunus Ali University, Enayetpur, Sirajganj, Bangladesh

Md. Mizanur Rahman, Department of Mechatronics Engineering, World University of Bangladesh, Uttara, Dhaka, Bangladesh

ID 9 Development of a Computer Aided Learning Tool for PIC18F4550 Microcontroller

Mainur Rahman Tarafder, Ex Post Graduate Student, IICT, BUET, Dhaka

ID 224 Investigating the Role of Quality and Organizational Development Initiatives in Logistics Operations

Mr. Kiolin Singh, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

Mr. Thabiso Mokoena, Lecturer, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Doornfontein, Johannesburg, South Africa

ID 255 Re-Design of Tanjak Packaging Using the Kansei Engineering Method (Case Study of Tanjak Mak Des Business)

Nurseptiana, Student at Industrial Engineering, Universitas Islam Negeri Sultan Syarif Kasim, Pekanbaru Riau, Indonesia

Melfa Yola, Assistant Professor Industrial Engineering, Universitas Islam Negeri Sultan Syarif Kasim, Pekanbaru Riau, Indonesia

Anwardi, Assistant Professor Industrial Engineering, Universitas Islam Negeri Sultan Syarif Kasim, Pekanbaru Riau, Indonesia

Muhammad Ihsan Hamdy, Assistant Professor Industrial Engineering, Universitas Islam Negeri Sultan Syarif Kasim, Pekanbaru Riau, Indonesia
 Fitriani Surayya Lubis, Assistant Professor Industrial Engineering, Universitas Islam Negeri Sultan Syarif Kasim, Pekanbaru Riau, Indonesia

2:00 – 3:45 pm, MONDAY**Operations Research****Virtual Room 3**

Session Chair: Dr. Mohammad Ali, BUTEX - Bangladesh University of Textiles

ID 153 A Human Resource Management Problem

T.R. Lalita, Indian Statistical Institute, India

ID 35 Multi-Mode Robust Appointment Scheduling for Uncertain Service Time and Random No-Show Using Min-Max Optimization

Anik Chandra Dash, Hany Osman, Ahmed Azab, Production & Operations Management Research Lab, University of Windsor, Canada
 Fazle Baki, Odette School of Business, University of Windsor, Canada

ID 16 Multi-Objective Plant Design Optimization Under Epistemic Uncertainty

Faisal Mahmud, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka

ID 108 Multi-Objective Resources Scheduling Model in Humanitarian Logistics Considering Secondary Disaster

Md Zisanul Haque Bhuiyan, Dr. Shuva Ghosh, Department of Industrial and Production Engineering (IPE), Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh
 Mohammad Rakibul Hasan Chowdhury, Department of Process Technology, University of South-Eastern Norway, Notodden, Norway

ID 57 Finding the Optimal Location for E-waste Treatment Plant in Bangladesh Using FAHP and VIKOR Method

Tasnim Alam Shejan, Tanvir Islam Shiju, Sonia Akhter, Department of Industrial and Production Engineering, Rajshahi University of Engineering and Technology (RUET), Rajshahi, Bangladesh

ID 230 Analysis of Factors Responsible for the Multinational Companies Not Moving in Rajshahi: A Comparative Study on the Locating Factors of Leading MNC

Tamanna Islam, Fariha Rahnuma and Md. Sazol Ahmmed, Department of Industrial & Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

ID 296 Investigating the detrimental effects of mutant tau unable to bind to microtubules in mammalian COS-7 cells

Kaitlyn Zhang, Stanford University Online High School, Redwood City, CA, United States

2:00 – 3:45 pm, MONDAY**Supply Chain Management****Virtual Room 4**

Session Chair: Sanjeeb Roy, CUET - Chittagong University of Engineering & Technology

ID 180 A Literature Review on Blockchain Based Supply Chain Using RFID and IoT in Different Sectors of Supply Chain

Tawsif Zaman Arnob, Ekra Binta Noor, Dr. A R M Harunur Rashid, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Boardbazar, Gazipur, Dhaka, Bangladesh

ID 123 A Possibility Degree Method for Ranking A Selected Supplier

Oumaima Zarhaoui, Achraf Haibi, Khalid El Yassini, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
 Kenza Oufaska, LERMA Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
 Mustapha Oudani, TIC Lab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco

ID 30 Assessing Forecasting Techniques & Stock Replenishment Approaches For Optimal Inventory of Electronic Spare Parts

Abir Debnath and Syed Arif Mahabub, Department of Industrial and Production Engineering (IPE), National Institute of Textile Engineering & Research, Dhaka, Bangladesh
 Md. Mahraj Uddin, Department of Industrial & Production Engineering (IPE), Shahjalal University of Science and Technology, Sylhet, Bangladesh

ID 179 Assessment of Barriers to Implement Industry 4.0 for Resilient Supply Chain in FMCG Industry: A Bayesian BWM Group Decision-Making Approach

Maishat Lubaba, Dr. M. Azizur Rahman, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh
 Md Shihab Shakur, Binoy Debnath, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 64 Decision Making & Risk Assessment for Inventory Management of Consumer Goods from Economic Order Quantity Perspective

Tarequl Islam, Supply Chain Management, Avery Dennison Bangladesh, Savar, Dhaka

ID 40 Efficiency of Inventory Management for Residual Vaccines of Covid-19

Hyungju Kim, Taesu Cheong, School of Industrial and Management Engineering, Korea University, Seoul, South Korea

2:00 – 3:45 pm, MONDAY**Industrial Engineering and Operations Management Areas****Virtual Room 5**

Session Chair: Dr. Mohammad Jalal Ahammad, CU - Chittagong University

ID 135 Predicting Demand for Catering Lunchboxes Using Machine Learning to Respond to Rapid Changes in Bento Sales

Yasunori Iwata, Department of Industrial Engineering and Management, Graduate School of Engineering, Kanagawa University, Kanagawa, Japan
 Kazuki Ota and Hideki Katagiri, Department of Industrial Engineering and Management, Faculty of Engineering, Kanagawa University, Kanagawa, Japan

ID 67 Applying Design Thinking in the Strategy of the Career Development Program at the University

Febby Candra Pratama and Riza Rizqiyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia
 Tiffany Nethania Suseno, Public Relations, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta 11480, Indonesia

ID 65 Application of Simulation in RMG Industries: A Case Study

Tarequl Islam, Capacity Planning - Supply Chain Management, Avery Dennison Bangladesh, Dhaka EPZ, Savar, Dhaka, Bangladesh

ID 144 Key Parameter Identification and Performance Evaluation of Linear Congruential and Mid Square Method in Random Number Generation

Polash Kumar Guptho, Abul Mukid Md. Mukaddes, and Nahidul Haque Abir, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology

ID 231 Consumer Behavior during Festival Seasons with Reference to Electronic Goods in Bangladesh

Shanjoy Chowdhury, Md. Sohanur Rahman, Md. Sona Mia and Md. Mosharraf Hossain, Department of Industrial and Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

ID 309 Importance of Sewing line Capacity Study to Improve Productivity in RMG Industry

Md. Masudur Rahman and Md. Mominur Rahman, Department of Textile Engineering, Daffodil International University, Dhaka, Bangladesh

December 26 (MONDAY) - Session: 6:00 – 7:45 pm

6:00 – 7:45 pm, MONDAY

Reliability, Maintenance and Management

Virtual Room 1

Session Chair: Dr. Md. Mahbubul Haque and Md. Mominur Rahman, DIU - Daffodil International University

ID 200 Analysis of Maintenance Management Implementation and Strategy: A Case Study of Airport Maintenance Management in Indonesia

Aqil Athalla Reksoprodjo, Bonang Ananta, Haikal Rastinggi, Department of Industrial Engineering, University of Indonesia, Salemba, Indonesia

ID 189 Analysis of Maintenance Management Implementation: A Case Study in Smartphone Manufacturing Factory

Eileen Onggaria, Olivia Elisabeth Manurung, Luthfi Azmaiza Hadsyah, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 190 Analysis of Maintenance Management Systems in Steel Manufacturing Industry

Fauzia Ashwin Hadits, Giri Aji Anggoro, Hafizh Rifqi, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 192 Preventive Maintenance Implementation in Aircraft Maintenance Organization: A Survey of Maintenance Characteristics of Airbus A320 Maintenance

Zahrina Zihni, Rangga Damar Bagaskara and Yoga Satria, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 188 Preventive Maintenance of Mining Heavy Equipment in an Indonesian Coal Mining Contracting Company

Bhetha Age Saputra, Dian Novita Sari, Muthia Khadijah, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 308 Adoption of International Management Standards in Bangladesh: Progress and Prospect

Faria Haque Pushpo and Md. Kutub Uddin, Department of Mechanical Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh

6:00 – 7:45 pm, MONDAY

Supply Chain Management

Virtual Room 2

Session Chair: Md. Mominur Rahman, DIU - Daffodil International University

ID 272 Analysis of the Green Supply Chain Management Activities Implementation in Small and Medium Scale Industries

Clora Widya Brilliantiana, I Nyoman Pujawan and Erwin Widodo, Department of Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, Indonesia

ID 300 Problems and response actions of the food supply chain against Covid-19: a SLR

Sofia Alejandra Calderón San Bartolomé, Student, School of Engineering and Architecture, Universidad de Lima, Lima, Peru
 Aylin Tatiana Gonzales Alejos, Student, School of Engineering and Architecture, Universidad de Lima, Lima, Peru
 José Antonio Taquia Gutiérrez, Professor – Advisor, Instituto de Investigación Científica, Universidad de Lima, Lima, Peru

ID 225 Supply chain Challenges encountered by Johannesburg street vendors

Daniel Lagamang, Tshepo Magoma and Talent Tatenda Chingono, Department of Quality and Operations Management, University of Johannesburg, South Africa

ID 234 Storage Control Uses Economic Production Quantity (EPQ) Method to Supply Continuous Demand and Discrete Demand at The Tofu Warno Factory

Sheila Mita, Student at Industrial Engineering, Sultan Syarif Kasim State Islamic University, Pekanbaru Riau, Indonesia
 Fitriani Surayya Lubis, Assistant Professor Industrial Engineering, Sultan Syarif Kasim State Islamic University, Pekanbaru Riau, Indonesia
 Harpito, Assistant Professor Industrial Engineering, Sultan Syarif Kasim State Islamic University, Pekanbaru Riau, Indonesia

Vera Devani, Assistant Professor Industrial Engineering, Sultan Syarif Kasim State Islamic University, Pekanbaru Riau, Indonesia
 Nofirza, Assistant Professor Industrial Engineering, Sultan Syarif Kasim State Islamic University, Pekanbaru Riau, Indonesia

ID 251 Sales Forecasting Using Neural Networks

Mr. S.U. Ghunage, Assistant Professor, College of Engineering, Pune, India
 Mr. Rahul B. Lohakare, College of Engineering, Pune, India

ID 256 Applying Linear Programming Method to Aggregate Production Planning: A Case Study on Rajshahi Sugar Mill

Jannatul Ferdous Mim, Sharna Sarker and Khairun Nahar, Department of Industrial & Production Engineering, Rajshahi University of Engineering and Technology, Rajshahi, Bangladesh

ID 283 Determination of Spare Parts Procurement in Plastic Packaging Manufacturing Company

Lailatul Fadhillah Rahmi, Djoko Sihono Gabriel and Farizal, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Depok, Indonesia

6:00 – 7:45 pm, MONDAY

Ergonomics & Human Factors Engineering

Virtual Room 3

Session Chair: Dr. Ferdous Sarwar, BUET - Bangladesh University of Engineering and Technology:

ID 119 Analyzing Musculoskeletal Disorders in Farmers Involved in Cultivation of Rice in Selected Villages of Bangladesh

Mohammad Iqbal, Rafid Ahmed Chowdhury and Md. Isfar Khan, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh

ID 185 Application of Neuro-Fuzzy Modelling for Accurate Estimation of Oxygen Consumption from Heart Rate

Ahmet Kolus, Industrial and Systems Engineering, King Fahd University of Petroleum and Minerals, Interdisciplinary Research Center of Smart Mobility and Logistics, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

ID 154 Development of Multifunctional Uses of Ergonomic Sewing machine Table to Promote Sustainability

Md. Sadman Sakib, Shayan Kumar Roy, Md. Rakibul Hoque, Sutonuka Sarker Priya, Shaila Akter, Babul Chawhan, Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka-1205

ID 97 Ergonomic Assessment of Copra Cake Manual Material Handling Process: A Basis for the Design of an Ergonomic Equipment

Dr. James Louie R. Meneses, Engr. Gervin S. Espinosa, Laurence Binasa, College of Engineering, Manuel S. Enverga University Foundation Lucena City, Quezon, Philippines

ID 297 The Relationship between Social Intelligence, Age, and Education

Kaitlyn Zhang, Stanford University Online High School, Redwood City, CA, United States

ID 273 Industrial Engineering Studies: Ergonomics Essences in the Systems Approach

Anastasia Febiyani, Doctoral Program Department of Industrial Engineering, Sebelas Maret University, Industrial Engineering Program, Faculty of Industrial Engineering and Design, Institut Teknologi Telkom Purwokerto, Indonesia
 Bambang Suhardi and Pringgo Widyono Laksono, Department of Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia
 Heru Prastawa, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

6:00 – 7:45 pm, MONDAY

Supply Chain Management

Virtual Room 4

Session Chair: Prof. Dr. Mohammad Masrurul Mowla, IIUC - International Islamic University of Chittagong

ID 124 Impact of Big Data analytics on Supply Chain functions

Haloui Doha, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco, LERMA Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
 Kenza Oufaska, LERMA Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
 Mustapha Oudani, TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
 Khalid El Yassini, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco

ID 118 Spatial Analysis of Road Traffic Accidents Between Tunisian Regions

Ouni Fedy, Department of Transportation and Logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Tunisia
 Attig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia
 Attig Imen, Engineering Department, Drone Xperts, Quebec, Canada, 101-2059 Av. Branly, Québec, QC G1N 4C7, Environment Department
 National Institute of Scientific Research of Québec (INRS), Canada

ID 198 Design of Polycarbonate Lens Production Scheduling Model Using Discrete Event Simulation (DES) Method

Cansa Julisa Muhammad Yusuf and Andri D. Setiawan, Industrial Engineering Department, Faculty of Engineering, Universitas of Indonesia, Kampus UI, Depok, Indonesia

ID 90 Inventory Control Analysis of Patent Medicine Using Activity Based Costing and Economic Order Quantity Method

Fitriani Surayya Lubis, Misra Hartati, and Nofita Putri Rahmadhani, Department of Industrial Engineering, Islamic State University of Sultan Syarif Kasim Riau, Pekanbaru, Indonesia

ID 194 Customer Churn Analysis Based on User Profile and Activity

Suwandi Dwi S and Zulkarnain, Department of the Industrial Engineering, University of Indonesia, Depok, Indonesia

6:00 – 7:45 pm, MONDAY

Sustainability and Green System

Virtual Room 5

Session Chair: Professor Dr. Md. Anwar Hossain, DUET – Dhaka University of Engineering & Technology

ID 132 Identification of Hazardous Substance on Air in Different Industrial Sites by Using IoT Based Air Quality Monitoring System

Rotan Kumar Saha, Md. Sohel Rana, Md. Shazzad Hossain, Department of Industrial and Production Engineering, Dhaka University of Engineering and Technology, Gazipur, Bangladesh

ID 111 Intrusion of Salinity in the Coastal Belt Area of Pekua Upazilla in Chattogram, Bangladesh and its impacts on Crop Production

Taslima Zannat, Assistant Professor, Department of Civil Engineering, Southern University Bangladesh
Sayma Akhter, Assistant Professor, Department of Civil Engineering, Southern University Bangladesh, Southern University Bangladesh
Utpal Das, Student, southern University Bangladesh, Southern University Bangladesh

ID 69 Phosphate Recovery from Sewage Sludge for Application as a Substitute to Phosphate Rock

M. M. Manyuchi, N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 199 Acceptance Model for the Use of Biopolymer Packaging in Food Shopping Delivery Through the GoFood Application

Yola Lista Valentina, Djoko Sihono Gabriel, Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 150 Development of Low-cost Automated Zero Waste Water System to Step towards Industry 4.0

Md. Sadman Sakib, Nusrat Jahan Brishty, Zaif Parvez, Jannate Nur Ridita Alam Aanchal, Riaz Uddin Raj, Akhzer Safoyat Khan Deehan, Department of Industrial and Production Engineering, Bangladesh University of Textiles (BUTEX), Tejgaon, Dhaka, Bangladesh

ID 106 Sustainable Approaches Towards Renewing Discarded Vehicle Tyre Rubbers

Mohammad Momeen Ul Islam, Civil & Infrastructure Engineering, School of Engineering, RMIT University, Melbourne, Australia

December 26 (MONDAY) - Session: 8:00 – 9:45 pm

8:00 – 9:45 pm, MONDAY

Sustainability and Environment

Virtual Room 1

Session Chair: Dr. Md. Rakibuzzaman, Assistant Professor, IUBAT

ID 271 Key Performance Indicators (KPIs) for Sustainable Manufacturing Evaluation in Apparel Industry

Chowdury M Luthfur Rahmam, Syed Misbah Uddin, Mohammed Abdul Karim and Sourav Paul, Department of Industrial and Production Engineering (IPE), Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh

ID 263 Post-Consumer Level App-Based Circularity Framework in Apparel and Fashion Industry: A Case Study of Bangladesh

Pritam Deb, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka Bangladesh
Anik Barua, Department of Apparel Engineering, Textile Engineering College (CTEC), Project Road, Zoranganj, Chittagong, Bangladesh

ID 261 Structural Framework of Sustainable Supplier Selection for Raw Materials in a Manufacturing Industry

Md. Ibn Sajid, MD. Sakawat Hossain Sohan, Nusrath Zahan and Md. Ariful Haque, Department of Industrial & Production Engineering Rajshahi University of Engineering & Technology, Rajshahi-6204, Bangladesh

ID 216 River Side Industries Erosion Protection in Climate Change Adaptation

Md. Lutfur Rahman, LGED, Bangladesh

ID 250 Rainfall prediction in the Southeastern region of Bangladesh using the Linear Regression Method

Md Habibur Rahman, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh
MD Miskat Hossain Siddique, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh
Abir Ahmed, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh

8:00 – 9:45 pm, MONDAY

Lean, Safety and Healthcare

Virtual Room 2

Session Chair: Dr. A. S. M. Mojahidul Hoque, JUST - Jessore University of Science and Technology

ID 346 Deterministic Testbed Problems for Job Shop Scheduling

Rakesh Kumar Phanden and Basant Singh Sikarwar, Department of Mechanical Engineering, Amity School of Engineering and Technology, Amity University Uttar Pradesh, Noida 201313, India
Aaryan Sheokand, School of Aerospace, Transport and Manufacturing, Cranfield University, United Kingdom
Adam Jacso, Budapest University of Technology and Economics, Hungary

ID 91 Lean Tools and Techniques for Improving Production Performance and Waste Reduction in A Plastic Company: A Case Study

Rotan Kumar Saha, Faisal Mahmud, Department of Industrial and Production Engineering, Dhaka University of Engineering and Technology Gazipur 1700, Bangladesh

ID 43 Studying the Application of VSM as a Lean Tool in a Healthcare Facility

Engr Mohammed Abdul Karim, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh
Tarequl Islam, Supply Chain Management, Avery Dennison Bangladesh, Dhaka EPZ, Savar, Dhaka, Bangladesh

ID 282 Strategy Design to Improve Safety on Electronic Manufacturing

Bidenisa Yulfarida Siswoyo, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

Maya Arlini Puspasari, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

ID 287 Zero discharge can lead to sustainable Chemical management to reduce environmental impact

Sadman Sakib Tushan, Bangladesh University of Textiles, Bangladesh

ID 276 Textile Wastewater Treatment Using Membrane Bioreactor: Opportunities and Challenges in Bangladesh

Mohsin Uddin, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

S. M. Maruf Billah, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

December 27 (TUESDAY) - Onsite

December 27 (TUESDAY) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY

Plenary I

Onsite Room 1

Session Chair: Dr. Md. Mosharraf Hossain, RUET

8:00 – 8:25 am, December 27 – Plenary Speaker I

A F M Sadequul Islam (Sadeq)
General Manager (Materials Management)
DBL Group
Kashimpur< Gazipur
Dhaka, Bangladesh

8:25 – 8:50 am, December 27 – Plenary Speaker II

Tapash Kundu
General Manager
Dekko Group
Dhaka, Bangladesh

8:50 – 9:15 am, December 27 – Plenary Speaker III

Dr. Md. Mazharul Habib
Additional Director
Bangladesh Industrial Technical Assistance Centre (BITAC)
Dhaka, Bangladesh
Member Practitioner-CQI, IMechE (U.K), IEB (Bangladesh), Member-AOM, (USA)
Master of Science in Quality Management, UWS University of the West of Scotland (UWS)
STEM Ambassador, (Glasgow, U.K), Paisley, PA1 2BE, U.K

9:15 – 9:40 am, December 27 – Plenary Speaker IV

Md Habibur Rahman
Manager Supply Chain, Runner Automobiles Limited
Ex-Assistant Manager, ACI Motors Limited
Dhaka, Bangladesh

8:00 – 9:45 am, TUESDAY

Global Engineering Education I

Onsite Room 2

Session Chair: Md. Ashfaqur Arefin

8:00 – 8:20 am, Tuesday, December 27, 2022

Mohammad Abdul Motin, Ph.D.
Assistant Professor, Department of Electrical & Electronic Engineering
Rajshahi University of Engineering & Technology
Rajshahi, Bangladesh
Research Field: Signal Processing, Machine Learning, Biomedical Engineering
Research Interest: Wearable Health Tech
Honorary Research Fellow, NTU, UK
Member NYAB, Senior Member, IEEE

8:20 – 8:40 am, Tuesday, December 27, 2022

Kazi Shahidullah, PhD
Assistant Professor, Curriculum and Instruction
Bangladesh University of Professionals (BUP)
Dhaka, Bangladesh
Program Evaluator, Board of Accreditation for Engineering and Technical Education

Research Project Lead, Governance Innovation Unit, Prime Minister's Office
Additional Director, Institutional Quality Assurance Cell (IQAC)

8:40 – 9:00 am, Tuesday, December 27, 2022

Md. Anwar Hossain, Ph.D. in BME
Technical Manager
National Electro-Medical Equipment Maintenance (NEMEMW) & Training Center
Mohakali, Dhaka, Bangladesh
Research Field: Mathematical modeling of clinical engineering approach to evaluate quality of the patient care

9:00 – 9:20 am, Tuesday, December 27, 2022

Md. Mostafizur Rahman
Sr. Assistant Professor and Head
Team leader, departmental quality assurance cell
Chairman, departmental curriculum committee
Department of Textile Engineering
World University of Bangladesh
Dhaka, Bangladesh
Challenges in Engineering Education

9:20 – 9:40 am, Tuesday, December 27, 2022

8:00 – 9:45 am, TUESDAY

Global Supply Chain and Logistics I

Onsite Room 3

Session Chair: Tarekul Islam

8:00 – 8:20 am, Tuesday, December 27, 2022

Md. Mohaiminul Islam
Deputy Manager -SCM
Whirlpool Corporation, Bangladesh
Dhaka, Bangladesh

8:20 – 8:40 am, Tuesday, December 27, 2022

Kh. Harun Or Rashid, CSCM™, CSCA™
Assistant Manager, Supply Chain
Checkpoint Systems Bangladesh Ltd.
Dhaka, Bangladesh

8:40 – 9:00 am, Tuesday, December 27, 2022

Sharhat Ahammed Kabir
Assistant Manager of Supply Chain and Business Development
Meghna Group
Dhaka, Bangladesh

9:00 – 9:20 am, Tuesday, December 27, 2022

Muhammad Rubel, CSCA™
Certified Supply Chain Analyst, BYLC Graduate
Campus Ambassador, ISCEA -International Supply Chain Education Alliance
Dhaka, Bangladesh

9:20 – 9:40 am, Tuesday, December 27, 2022

Tarekul Islam
Capacity Planner – Supply Chain
Avery Dennison
Dhaka, Bangladesh

8:00 – 9:45 am, TUESDAY

Technical Presentation I

Onsite Room 4

Session Chair: Dr Mohammad Sarwar Morshed, AUST

ID 94 Stereolithography 3D Printing of Bagasse Reinforced Composites

Kazi Ahasan Ekram, Rakibul Hasan Raihan and Nabil Chowdhury, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh
Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh
Dr. M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

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

ID 48 A Sustainable and Economic Approach towards Shoulder Tape Joining in T-Shirt

Habibur Rahman Anik, Bangladesh University of Textiles, Bangladesh

ID 109 A Numerical Study for Fluid Flow around Different Shapes Of Bridge Pier

Anwar Ahmad Siddiquee and Mohammad Jalal Ahammad, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh

ID 178 Effect of Chemical Treatment on Mechanical Properties of Jute Reinforced Composites

Taufiq Ahmed Sady, Md Fahad Hossain and Md Sourav Rahman, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST) Dhaka, Bangladesh

M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Shahnewaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 54 Finding the Social Media Influencing Factors and Their Correlations: A Case Study on Online Shoppers in Bangladesh

Md. Ariful Islam, Muhammad Mohi Uddin and Fairuz Nower, Department of Industrial and Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

ID 237 Cost Minimization: A Comparison Study on Various Types of Transportation Methods

Md Habibur Rahman, Afsana Akter and Md Miskat Hossain Siddique, Department of Mathematics, University of Chittagong, Chittagong, Bangladesh

December 27 (TUESDAY) - Session: 10:00 am – 1:00 pm

Keynotes

10:00 – 10:05 am: Conference Chair Remarks

Dr. Md. Mosharraf Hossain

Professor and Head of Industrial & Production Engineering Department
Rajshahi University of Engineering & Technology (RUET), Bangladesh

10:05 – 10:30 am: Welcome and Opening

Prof. Dr. M. Anwar Hossain

Former VC of IUT

Former VC of AUST and Professor of ME, BUEU

10:30 – 11:00 am Keynote I (Opening Keynote): – Room 1 Onsite

Abdullah Talha

Managing Director

Noman Group of Industries & Talha Group

Dhaka, Bangladesh

11:00 – 11:30 am Keynote II: – Room 1 Onsite

Prof. Dr. Imtiaz Ahmed Choudhury

Professor, Department of Mechanical and Production Engineering
Ahsanullah University of Science and Technology

Dhaka, Bangladesh

11:30 am – 12:00 pm Keynote III: – Room 1 Onsite

Dr. Mohammad Uddin

Senior Lecturer at UniSA STEM
University of South Australia, Adelaide, Australia

12:00 – 12:30 pm Keynote IV: – Room 1 Onsite

Dr. Ahm Shamsuzzoha

Faculty, University of Vaasa, Finland
Head of CoVE for Green Innovation, Vaasa, Finland

12:30 – 1:30 pm Keynote V: – Room 1 Onsite

Dr. Md Nazrul Islam

PhD, Michigan State University, USA
Associate Editor, IEOM Society International
Toronto, Ontario, Canada

1:00 – 2:00 pm – Lunch and Dhuhur Prayer Break

December 27 (TUESDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, TUESDAY

Panel I

Onsite Room 1

Industry 4.0 Panel

Panel Chair

Mr. Md. Abdullah Al Mahmud
Founder & CEO, Thriving Skills Limited Assistant Professor of MIS
Manarat International University
Dhaka, Bangladesh

Panel Speaker I

Shyamol B Das
Deputy Managing Director & Chief Information Officer
Meghna Bank Limited
Dhaka, Bangladesh

Panel Speaker II

Ziaul Haque
Managing Director
Trauma Center Hospital & Diagnostics Lab
Dhaka, Bangladesh

Panel Speaker III

Dr. Rafiuddin Ahmed
Associate Professor of Marketing
University of Dhaka
Founder of Innokids
Dhaka, Bangladesh

Panel Speaker IV

2:00 – 3:45 pm, TUESDAY**Global Engineering Education II****Onsite Room 2**

Session Chair: Dr. Md Shahadat Hossain Khan

2:00 – 2:20 pm, Tuesday, December 27, 2022

Dr. Md Shahadat Hossain Khan
Associate Professor
Department of Technical and Vocational Education (TVE)
Islamic University of Technology (IUT)
Board Bazar, Gazipur-1704, Bangladesh

2:20 – 2:40 pm, Tuesday, December 27, 2022

Md. Ariful Ferdous
Lecturer
Dept. of Industrial Engineering
BGMEA University of Fashion & Technology
Dhaka, Bangladesh

2:40 – 3:00 pm, Tuesday, December 27, 2022

Abdullah Ali Mamun Anik
Selected for MIT Innovation Leadership Bootcamp 2022, U.S.A
Selected for Junior Research Fellow, SPARRSO, Ministry of Defence

3:00 – 3:20 pm, Tuesday, December 27, 2022

Prof. Dr. Md. Emdadul Hoque
Dean, Faculty of Mechanical Engineering
Professor, Dept. of Mechanical Engineering
Rajshahi University of Engineering & Technology
Rajshahi-6204, Bangladesh

3:20 – 3:40 pm, Tuesday, December 27, 2022

Dr. Md. Faruque Hossain
Professor, Department of Electronics and Communication Engineering
Khulna University of Engineering & Technology (KUET)
Khulna -9203, Bangladesh

2:00 – 3:45 pm, TUESDAY**Global Supply Chain and Logistics II****Onsite Room 3**

Session Chair: Tanzid Ahmed Mihad

2:00 – 2:20 pm, Tuesday, December 27, 2022

Tanzid Ahmed Mihad, CSCA™
ULIP GTM Intern
Supply Chain, Customer Development & Sales Operations
Unilever
Dhaka, Bangladesh

2:20 – 2:40 pm, Tuesday, December 27, 2022

Dipa (Paul) Rani
Procurement & Purchase Officer
VIP Industries Limited
Mongla EPZ, Khulna
Bangladesh

2:40 – 3:00 pm, Tuesday, December 27, 2022

Engr. Nahid Parveen
Head & Sr. Manager of Procurement Department
BRAC Dairy and Food Project
Dhaka, Bangladesh

3:00 – 3:20 pm, Tuesday, December 27, 2022

Md Monjur Hossain
Assistant Engineer (Planning and SCM)

Akij Group
Dhaka, Bangladesh

3:20 – 3:40 pm, Tuesday, December 27, 2022

Ashik Ahammed
Supply Chain Professional
Executive – Procurement & Supply Chain Management
Jubilant FoodWorks Ltd.
Dhaka, Bangladesh

2:00 – 3:45 pm, TUESDAY

Technical Presentation II

Onsite Room 4

Session Chair: Dr Mohammad Ali, BUTEX / Dr Md. Mamunur Rashid, BUTEX

ID 14 River Side Industries Erosion Protection in Climate Change Adaptation

Dr.Md. Lutfur Rahman, PEng., PMP, Civil Engineering Specialist (Water Management), Institutional Development National Consultant, Climate Resilient Local Infrastructure Centre, Local Government Engineering Department (LGED)

ID 31 Edge Colouring Process Improvement by DMAIC Methodology – Efficiency Perspective

Md. Sajib Milki, Department of Industrial Engineering (IE), BGMEA University of Fashion & Technology (BUFT), Dhaka, Bangladesh
Department of Industrial and Production Engineering (IPE), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

ID 148 An Integrated Framework for Investigating Relationship between Overall Equipment Effectiveness (OEE) and Downtime

Md. Ariful Haque, A M Almas Shahriyar Azad, Moumita Ghosh, Zarin Tasnim Oishi and Md. Mohibul Islam, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology Rajshahi, Bangladesh

ID 59 Analysis of Factors Responsible for the Multinational Companies Not Moving in Rajshahi: A Comparative Study on the Locating Factors of Leading MNC

Tamanna Islam, Fariha Rahnuma, Md. Sazol Ahmmed, Department of Industrial & Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi

ID 262 Fostering Green Innovation in Organizations: Accompanied Opportunities and Challenges

Ahm Shamsuzzoha, School of Technology and Innovations, Digital Economy Research Platform, University of Vaasa, Vaasa, Finland
Giang Tran, Digital Economy Research Platform, University of Vaasa, Vaasa, Finland
Bojan Jovanovski, Institute of International Management and Entrepreneurship, FH Joanneum, Graz, Austria

ID 286 5G-based Smart Health Care System Design Using IoT in Bangladesh

Sajjad Ahmed, Md. Arafat Hossain Emu and Quazi Monjur E-Elahi, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 349 A Mathematical Model to Solve Order Batching, Sequencing and Routing Problems in Warehouse Operation

Md. Saiful Islam and Md. Kutub Uddin, Department of Mechanical Engineering, Khulna University of Engineering and Technology (KUET), Khulna-9203, Bangladesh

3:45 – 4:00 pm Break and Asr Prayer

December 27 (TUESDAY) - Session: 4:00 – 5:20 pm

4:00 – 5:20 pm, TUESDAY

Panel II

Onsite Room 1

Lean Six Sigma Panel

Panel Chair

Sadique Salim
Vice President, Bangladesh
Six Sigma Management Institute
Lean Six Sigma Master Black Belt
Dhaka, Bangladesh

Panel Speaker I

Dr. Ziaul Adnan
Associate Professor
North South University
Dhaka, Bangladesh

Panel Speaker II

Md Saiful Azam
Deputy General Manager - Head of Fabric Dyeing, Yarn Dyeing, Printing & Finishing
Talha Group

Dhaka, Bangladesh

Topic: Reduction of Basic Chemicals Consumption in Wet Processing

Panel Speaker III

Md. Monwar Jahid
CSSBB (ASQ), MBA (DU)
Head of Operations
Zaber & Zubair Accessories Ltd. (Talha Group)
Gazipur, Dhaka, Bangladesh

Topic: Production and Material Consumption Tracking Software Development with Bar Code

Panel Speaker IV

4:00 – 5:20 pm, TUESDAY**Global Engineering Education III****Onsite Room 2**

Session Chair

Dr. Shamsuddin Ahmed
Professor
Department of Mechanical and Production Engineering
Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)
Boardbazar, Gazipur, Bangladesh

4:00 – 4:20 pm, Tuesday, December 27, 2022

Sajal K. Das, Ph.D., MIEEE
Head, Department of Mechatronics Engineering
Rajshahi University of Engineering & Technology
Rajshahi-6204, Bangladesh

4:20 – 4:40 pm, Tuesday, December 27, 2022

Kazi Saiful Islam Shawon
Machine Learning Engineer
Spacenus GmbH
Dhaka, Bangladesh

4:40 – 5:00 pm, Tuesday, December 27, 2022

Dr. Mohammad Abdul Motin
Assistant Professor
Department of EEE
RUET
Rajshahi, Bangladesh

5:00 – 5:20 pm, Tuesday, December 27, 2022

Prof. Dr. Iqbal Mahmud
Chairman
Department of Mechanical Engineering
Mawlana Bashani Science & Technology University

5:20 – 5:40 pm, Tuesday, December 27, 2022

Abdullah al Mamun
Professional Software Engineer and Researcher
Manager at Robi Axiata Limited
Dhaka, Bangladesh
Artificial Intelligence: Classification, Applications, Opportunities, and Challenges

4:00 – 5:20 pm, TUESDAY**Global Supply Chain and Logistics III****Onsite Room 3**

Session Chair: Engr. Md. Abdullah Al Mamun

4:00 pm – 4:20 pm, Tuesday, December 27, 2022

Nazmul Huda Sharif Uddin (MCIPS)
General Manager and Head of Supply Chain Management, Sourcing, Finance
Grameenphone Ltd
Dhaka, Bangladesh

4:20 pm – 4:40 pm, Tuesday, December 27, 2022

Md Mazharul Islam, IDipNEBOSH, PMP®, CEM®, OHSAS Lead Auditor, B.Sc. Engg. (BUET)
Deputy General Manager, EHS and Sustainability
American & Efird
Dhaka, Bangladesh

4:40 pm – 5:00 pm, Tuesday, December 27, 2022

Engr. Md. Abdullah Al Mamun, CSCM™
Deputy Manager, SCM
Bangla Trac Group (Power Plant)
Banani, Dhaka, Bangladesh

5:00 pm – 5:20 pm, Tuesday, December 27, 2022

Miraj Mahbub Rafi
Supply Production Leader
Decathlon Sports Bangladesh
Dhaka, Bangladesh

5:20 pm – 5:40 pm, Tuesday, December 27, 2022

Md. Belal Hossain
Manager, Supply Chain Management
PRAN-RFL Group
Dhaka, Bangladesh

4:00 – 5:20 pm, TUESDAY**Technical Presentation III****Onsite Room 4**

Session Chair: Dr. Md. Haider Ali Biswas, KU

ID 68 Design and Fabrication of a Shaft Drive Bicycle

Md. Nahidul Islam and Md. Rakibuzzaman, Department of Mechanical Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh

ID 181 A Study on Double Wishbone Suspension System

Ashikul Islam Nabil, Md. Sharif Hosen and Md. Rakibuzzaman, Department of Mechanical Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh

ID 139 Effect of Chemical Treatments on Mechanical Properties of Jute

Shimanto Sarker, Dhruba Dhar and Zayed Faysal Revan, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST)
Dhaka, Bangladesh

Dr. M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. Md. Shahnewaz Bhuiya, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 175 Development of a Linear Programming Model for the Diet Plan of University Students

S. H. Sakib, Md. Shahidul Islam, Tushy Tasnim and Abul Mukid Md. Mukaddes, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh

ID 236 A Study on Working Condition of Selected Tea Estate Workers after Covid-19 Situation

Mohammad Iqbal, Sourav Paul and SM Tawhid Mahmud, Department of Industrial and Production Engineering (IPE), Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh

Md. Shofiul Azam, Department of Chemical and Food Engineering (CFE), Dhaka University of Engineering and Technology (DUET), Gazipur, Dhaka, Bangladesh

ID 49 An Incineration Method to Produce Energy from Waste in Rajshahi City, Bangladesh

Tauhid Al Hasan Evan, Ahtashamul Haque and Toukir Ahmed, Department of Industrial and Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

5:30 pm - Maghrib Prayer

7:00 – 10:00 pm, Tuesday, December 27 – Awards Dinner Buffet at Café Rio Dhanmondi

December 28 (WEDNESDAY) - Onsite

December 28 (WEDNESDAY) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, WEDNESDAY

Plenary II

Onsite Room 1

Session Chair: Dr. Mohammad Iqbal, SUST

8:00 – 8:25 am, December 28 – Plenary Speaker IV

Eng. Md. Sourove Akther Momin
Additional Director
Walton Hi-Tech Industries PLC
Dhaka, Bangladesh
Certified Metal Cutting Professional (CMP)
Certified World Class Manufacturing (WCM) Practices Manager
Member, Thermofluids Engineering Group (TEG), Universidade Federal de Santa Catarina, Brazil
Bachelor of Science in Mechanical Engineering, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh
DIPLOMA In Metal Cutting Technology, Sandvik Coromant Academy programme

8:25 – 8:50 am, December 28 – Plenary Speaker V

Dr. Sajal Chandra Banik
Professor
Department of Mechanical Engineering
Chittagong University of Engineering & Technology (CUET)
Chittagong, Bangladesh
B.Sc. in ME (BUET), MSc. in Mechatronics (Germany), PhD in Robotics & AI (Japan)

8:50 – 9:15 am, December 28 – Plenary Speaker VI

Md Tanul Islam
General Manager, Beverage & Dairy
PRAN-RFL Group
Dhaka, Bangladesh

9:15 – 9:40 am, December 28 – Plenary Speaker VII

Engr. Kh. Abu Nur Ashfaq Ahmed Lord
General Manager – bag Manufacturing Plant
Bashundhara Industrial Headquarter-1
Bashundhara R/A
Dhaka 1229, Bangladesh

8:00 – 9:45 am, WEDNESDAY

Industry Solutions I

Onsite Room 2

Session Chair: Taimur M Arif

8:00 – 8:20 am, Wednesday, December 28, 2022

Farazee Sazzad Hossain
Assistant Manager
Fresh LP Gas
Dhaka, Bangladesh

8:20 – 8:40 am, Wednesday, December 28, 2022

Profile photo of Ron Mahenur
Ron Mahenur
Founder & CEO
Uddoktagiri
Dhaka, Bangladesh

8:40 – 9:00 am, Wednesday, December 28, 2022

Md. Shadatuzzaman Sourov
ASQ LSSBB, 6S, QMS & IATF Internal Auditor, Lean Practitioner-Trainer
Central Planner
Rahimafrooz
Dhaka, Bangladesh

9:00 – 9:20 am, Wednesday, December 28, 2022

Profile photo of Salim Reza
Salim Reza
Manager & Head of IE & Planning Department
Edison Industries Ltd – Edison Group
Dhaka, Bangladesh

9:20 – 9:40 am, Wednesday, December 28, 2022

Taimur M Arif, FIEB, CLSSBB, CSCM™
Deputy General Manager
Quasem Industries Limited
Dhaka, Bangladesh
5S Applications

9:20 – 9:40 am, Wednesday, December 28, 2022

Engineer Md. Mine Uddin
Industrial & Production Engineer
Karnafuly Dry Dock Special Economic Zone Ltd.
Chittagong, Bangladesh

8:00 – 9:45 am, WEDNESDAY

Global Business Management I

Onsite Room 3

Session Chair: Jaidur RAHMAN

8:00 – 8:20 am, Wednesday, December 28, 2022

Jaidur RAHMAN
Business Unit Manager; Decathlon Bangladesh
Sr. Executive- Supply Chain Planning; ACI Logistics Ltd
B.Sc. in Industrial and Production Engineering; BUET
MBA in Finance; USTC

8:20 – 8:40 am, Wednesday, December 28, 2022

Abdul Monaiem Kudrot Ullah
Inspector Academy & Institution
Bangabandhu Sheikh Mujibur Rahman Maritime University
Dhaka, Bangladesh

8:40 – 9:00 am, Wednesday, December 28, 2022

Md Ragib Al Hasan
Assistant General Manager
Bangladesh Rural Electrification Board
Kishoreganj, Dhaka, Bangladesh

9:00 – 9:20 am, Wednesday, December 28, 2022

Syed Hassan Sadman
Business Analyst
MetLife
Dhaka, Bangladesh

9:20 – 9:40 am, Wednesday, December 28, 2022

Faruque Hossain
General Manager
Comfit Composite Knit Ltd
Gorai, Mirzapur, Tangail, Dhaka, Bangladesh

8:00 – 9:45 am, WEDNESDAY

Technical Presentation IV

Onsite Room 4

Session Chair: Dr. Muammer Din Arif, MIST

ID 50 Effectiveness of Online Education System during Covid-19 Pandemic: A Comparative Study Between Public and Private Universities in Bangladesh.

Md. Ariful Islam, Md. Bodruzzaman Sifat and Fazlay Rabbi Mridu, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology (RUET), Rajshahi-6204, Bangladesh

ID 41 Optimum Location Selection of University of Thakurgaon

Md. Mehedi Hasan, Md Arik Arshad Anik, Md. Sazol Ahmmed, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology (RUET), Rajshahi-6204, Bangladesh

ID 95 Effect of NaOH Concentration on 3D Printed Bagasse Reinforced Composite Material

Rakibul Hasan Raihan, Nabil Chowdhury, Kazi Ahasan Ekram, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. Md. Shahnawaz Bhuiyan, Associate Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 214 Using Discrete Event Simulation to Improve the Patient Flow of A Healthcare System

Imtiajur Rahman, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Bangladesh

ID 121 Thermal Performance of a Closed Loop Pulsating Heat Pipe Using Acetone for Plain Tube and Wire Insert

Dhananjay Banik Joy, Sumon Kumar Pramanik Joy, Sanjay Kushal Biswas, Dr. Alope Kumar Mozumder, Department of Mechanical Engineering Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh

ID 28 Prioritizing the Drivers and Barriers of Circular Economy (CE) implementation for E-waste management: A case study on refrigerator industries in Bangladesh

Sajib Ahmed, Rajshahi University of Engineering & Technology, Bangladesh

December 28 (WEDNESDAY) - Session: 10:00 am – 1:00 pm

Keynotes

10:00 – 10:30 am: Welcome

10:30 – 11:00 am Keynote VI: Room 1 Onsite

Mohammad Maksud Haq

Manager, Stamping Quality, Metrology Center

Stellantis

Warren, Michigan, USA

11:00 – 11:30 am Keynote VII: – Room 1 Onsite

Dr. Kamrul Ahsan

Associate Professor

Department of Supply Chain and Logistics Management

RMIT University, Melbourne, Australia

11:30 am – 12:00 pm Keynote VIII: – Room 1 Onsite

Engr. Md. Mahmudur Rahman Manna

Chief Executive Officer

Maeashah Group

Former Technical Advisor of Bashundhara Food & Beverage Industries Ltd.

Dhaka, Bangladesh

12:00 – 12:30 pm Keynote IX: – Room 1 Onsite

Ferdous Sarwar, PhD

Professor and Head
Department of Industrial & Production Engineering
Bangladesh University of Engineering and Technology
Dhaka 1000, Bangladesh

12:30 – 1:00 pm Keynote X: – Room 1 Onsite

Professor Dr. Zamberi Bin Jamaludin
Professor, Faculty of Manufacturing Engineering
Universiti Teknikal Malaysia Melaka (UTeM)
Durian Tunggal, Malacca, Malaysia

1:00 – 2:00 pm – Lunch and Dhuhur Prayer Break

December 28 (WEDNESDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, WEDNESDAY

Panel III

Onsite Room 1

RMG Quality, Productivity and Safety

Panel Chair

Dr. Md. Mazharul Habib
Additional Director
Bangladesh Industrial Technical Assistance Centre (BITAC)
Dhaka, Bangladesh
Ph.D. in Total Quality Management (TQM)

Panel Speaker I

Mohammad Monower Hossain
Joint Secretary, Head of Sustainability at Brand BGMEA
Joint Secretary, Research, Development and Trade Information (RDTI)
BGMEA – Bangladesh Garment Manufacturers and Exporters Association
Uttara, Dhaka, Bangladesh

Panel Speaker II

Panel Speaker III

Panel Speaker IV

2:00 – 3:45 pm, WEDNESDAY

Industry Solutions II

Onsite Room 2

Session Chair: Mohammad Subail-Bin-Alam

2:00 – 2:20 pm, Wednesday, December 28, 2022

Mohammad Golam Kibria
Founder and CEO
iota Consulting BD
Bangladesh

2:20 – 2:40 pm, Wednesday, December 28, 2022

Mohammad Subail-Bin-Alam
Director & Country Head, Sarens Bangladesh Pvt. Ltd.
Director, Save Medical Limited
Consultant, Telus International

2:40 – 3:00 pm, Wednesday, December 28, 2022

Aharap Shahriar Anik, PMP®, CSSMBB™
Project Analyst
Criterion Group LLC
Dhaka, Bangladesh

3:00 – 3:20 pm, Wednesday, December 28, 2022

Ziaul Hassan Serneabat
Head of Health and Safety
SHV Energy – Petromax LPG Limited

3:20 – 3:40 pm, Wednesday, December 28, 2022

Engr. Ashrafuzzaman Bappy
Deputy General Manager (Factory in Charge)
Prince Electricals LTD
Dhaka, Bangladesh

2:00 – 3:45 pm, WEDNESDAY

Global Business Management II

Onsite Room 3

Session Chair: Arshad Murad

2:00 – 2:20 pm, Wednesday, December 28, 2022

Prof. Dr. Engr. Md. Mamunur Rashid
Head, Production Management Division
Bangladesh Institute of Management (BIM)
4, Sobhanbag, Dhanmandi, Mirpur Road
Dhaka-1207, Bangladesh

2:00 – 2:40 pm, Wednesday, December 28, 2022

Mohammad Morad Hossain
CHRO & Board Secretary
Elite Paint Group of Companies
Dhaka, Bangladesh

2:40 – 3:00 pm, Wednesday, December 28, 2022

Mojahid Chowdhury
Assistant Professor (Port and Shipping Management)
Bangabandhu Sheikh Mujibur Rahman Maritime University
Dhaka, Bangladesh

3:00 – 3:20 pm, Wednesday, December 28, 2022

S.M. Asif Hossain
MSc. in Engineering
Engineer, Bangladesh National Parliament (Government of the Peoples Republic of Bangladesh)
Researcher (Passive Acoustic Monitoring, Acoustic Signal Processing, Ocean Engineering)
Joint Secretary, Bangladesh National Parliament Employee Forum
Member, The Institution of Engineers, Bangladesh (IEB)

3:20 – 3:40 pm, Wednesday, December 28, 2022

Arshad Murad
General Manager, Industrial Engineering Department at Asian Group
Post-Graduation Diploma in Garments Business (PGDGB), IBA DU (Running)
Bsc. in Industrial and Production Engineering at SUST

2:00 – 3:45 pm, WEDNESDAY

Technical Presentation V

Onsite Room 4

Session Chair: Dr A R M Harunur Rashid, IUT

ID 128 Mechanical Properties of Chemically Extracted Bagasse Fiber

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

M. Azizur Rahman and Dr. Md. Shahnewaz Bhuiyan, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Nasif UI Hossain, Azhar Mahmud, Mir Ahasan Ahmed, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

ID 196 Numerical Investigation of Varying Fin Geometries with Different Material Assignments for Natural Convection

Suvro Bhowmick, Lecturer, Department of Mechanical Engineering (ME), Military Institute of Science & Technology (MIST), Dhaka, Bangladesh
Mashhud Hasan Al Faruq, Mst. Tasnia Tabassum Kasfia, Samiul Islam Pranto, Student, Department of Mechanical Engineering (ME), Military Institute of Science & Technology (MIST), Dhaka, Bangladesh

ID 311 Challenges in Engineering Education: A Review

Md. Mostafizur Rahman, Umme Salma Ferdousi, Tamanna Hasan and Tasnuva Sharmin, Department of Textile Engineering, World University of Bangladesh (WUB), Avenue 6 Lake Drive Uttara Sector 17, Dhaka, Bangladesh
 Dr. Md. Abdus Shahid, Department of Textile Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur, Bangladesh
 Dr. Ferdous Ahmed, Department of Environmental Sciences, International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh

ID 143 Analyzing Drivers of E-waste Management to Achieve Sustainability: Implications for a Developing Country

Md. Zahidul Anam, Md. Tanvir Siraj, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh
 Spandan Basak Payel, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

ID 328 Analysis of Challenging Factors of E-commerce Industry in Bangladesh: A Case Study

Shafina Sultana, S. M. Sohaeb Bin Islam and Md. Mosharraf Hossain, Department of Industrial & Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

3:45 – 4:00 pm Break and Asr Prayer

December 28 (WEDNESDAY) - Session: 4:00 – 5:20 pm

4:00 – 5:20 pm, WEDNESDAY

Panel IV

Onsite Room 1

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair

Annesha Ahmed, PMP
 Director, Strategy and Business Development
 Diesel Power Services Limited
 Dhaka, Bangladesh

Panel Speaker I

Akhter Hamed
 Chief Operating Officer
 SAJIDA Foundation
 Dhaka, Bangladesh

Panel Speaker II

Nasrin Jahan
 Program Manager, Climate Change Programme
 BRAC
 Dhaka, Bangladesh

Panel Speaker III

Mohammed Selim Ullah
 Head of Supply Chain Management
 Summit Communications Ltd
 Dhaka, Bangladesh

Panel Speaker IV

Masuda Hossain
 Head of Regulatory Affairs
 EDOTCO Bangladesh Co. Ltd

4:00 – 5:20 pm, WEDNESDAY

Industry Solutions III

Onsite Room 2

Session Chair: Md. Hashib Pervaz

4:00 – 4:20 pm, Wednesday, December 28, 2022

Mejbauddin Chowdhury
 Production Manager
 Jenson & Nicholson Bangladesh
 Chattogram, Bangladesh

4:20 – 4:40 pm, Wednesday, December 28, 2022

Touhidul Islam ASM
General Manager – Production (Unit head)
AEPZ – A reputed fashions
Adamjee EPZ, Narayanganj, Dhaka

4:40 – 5:00 pm, Wednesday, December 28, 2022

Sanouar Hossain
Director-Operation
Modhumoty Group
Dhaka, Bangladesh

5:00 – 5:20 pm, Wednesday, December 28, 2022

Engr. Md. Anik Islam
Head of IE
Norban Group
Savar, Gazipur, Bangladesh

5:20 – 5:40 pm, Wednesday, December 28, 2022

Md. Hashib Pervez
O & M Competency Trainer
Chevron
Sylhet, Bangladesh

4:00 – 5:20 pm, WEDNESDAY

Global Business Management III

Onsite Room 3

Session Chair: Mamunur Roshid Murad

4:00 – 4:20 pm, Wednesday, December 28, 2022

Azim Mohammad
Lead Consultant
Panacea Private Consulting-PPC
Bangladesh

4:00 – 4:40 pm, Wednesday, December 28, 2022

Muhammad Rashed UI Alam
General Manager, Central Implementation & Governance and Regional Operations
Summit Communications Ltd
Dhaka, Bangladesh

4:40 – 5:00 pm, Wednesday, December 28, 2022

Sohel Mahboob
Chief Executive Officer
Auleek Services & Oncosys International JV
Dhaka, Bangladesh

5:00 – 5:20 pm, Wednesday, December 28, 2022

Mamunur Roshid Murad
Manager-IE & Planning (Washing Unit 1&2)
Natural Group
Tongi, Dhaka, Bangladesh

5:20 – 5:40 pm, Wednesday, December 28, 2022

Sarker Mahatab Masud
PMP® | CB-PMO® | PRINCE2® Practitioner | SMCT™
Sr. Project Manager, ERP & Project Management Office
BRAC
Dhaka, Bangladesh

4:00 – 5:20 pm, WEDNESDAY

Technical Presentation VI

Onsite Room 4

Session Chair: Dr. Iqbal Mahmud, MBSTU

ID 131 Ecofriendly Design and Development of Bladeless Air Conditioning Fan

Md. Sazzat Hossain, Md. Nehal Hossen, Md. Nasif Hossain, Nayeem Uddin, Mashayek Mahbub, Md. Sazol Ahmmed, Md. Ariful Haque
Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, Bangladesh

ID 61 A Study to Propose an Optimized Home Load Energy Management System by Dwelling Model Using Informative Control Module

Sarkar Sudipta Shekhar Supta, Md. Arafat UI Ferdoush and Sonia Akhter, Department of Industrial & Production Engineering

Rajshahi University of Engineering & Technology (RUET), Rajshahi - 6204, Bangladesh

ID 96 Effect of Bagasse fiber extraction process on mechanical properties of 3D printed Bagasse reinforced Composite Material

Nabil Chowdhury, Kazi Ahasan Ekram, Rakibul Hasan Raihan, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Md. Ershad Khan, Associate Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

Dr. M. Azizur Rahman, Assistant Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh

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

ID 330 Application of Value Analysis for Increasing the Value of Industrial Products: A Case Study

Adri Dash, Rifat Hussain Akand Pulok and Md. Mosharraf Hossain, Department of Industrial & Production Engineering (IPE), Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

ID 331 Improving the Mental Health Factors of Astronauts via Virtual Reality

Rifah Tasnia, Rakib Hossain, Arpa Afrin, Shantunu Mondal and Md. Haider Ali Biswas, Khulna University, Bangladesh

ID 149 A Review of Recent Research on Groundnut Shell and Saw Dust Composite Materials and Structures with Applications

Farhana Afroz and Shamsuddin Ahmed, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Dhaka, Bangladesh

5:30 pm - Maghrib Prayer



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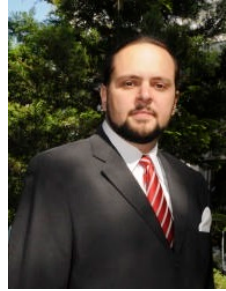
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Lusaka, Zambia, April 4-6, 2023
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Lima, Peru, May 9-11, 2023
Venue: JW Marriott Hotel Lima



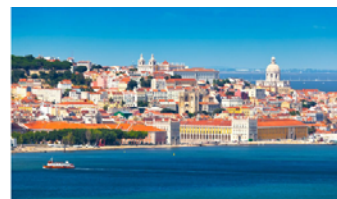
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8th North American Conference on Industrial Engineering and Operations Management
Houston, Texas, USA, June 13-15, 2023
Host: Texas A&M Engineering Experiment Station Institute of Manufacturing Systems (TEES-IMS)



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6th European Conference on Industrial Engineering & Operations Management
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Sept. 12-14, 2023, Ho Chi Minh City, Vietnam
Hosts: CFVG-HCM and University of Economics Ho Chi Minh City



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