



**The Second International Conference on Industrial and Mechanical Engineering and Operations Management (IMEOM)**

12-13 December, 2019, Dhaka, Bangladesh

Venue: Bangladesh Institute of Management (BIM), 4, Sobhanbag, Mirpur Road

[www.ieombd.org/imeom2019](http://www.ieombd.org/imeom2019)

**Organized by: IEOM Society of Bangladesh and Production Management Division, BIM**

**Supported by: IEOM Society International**

**Program Schedule – IMEOM 2019 Dhaka**

<b>Day One: 12 December, 2019 (Thursday)</b>		
915 1700	<b>Registration</b>	Venue: Room No 312
830-900	<b>Morning Keynote</b>	Venue: Room No 314-A
Keynote Speaker	Prof Dr. M Iqbal (SUST)	
Title:	Industry 4.0 and its impact in Bangladesh	
Session Chair:	Prof Dr. Md. Mamunur Rashid (BIM) and Dr. A.R.M. Harunur Rashid (IUT)	
900 1000	<b>Long Keynote</b>	Venue: Room No 314-A
Keynote Speaker	Prof Dr. Abdur Rahim, UNB, Canada	
Title:	An Integrated Approach on Operations Management, Quality Management, Maintenance and Supply Chain Management	
Session Chair:	Prof Dr Nurul Absar Chowdhury, IUT and Prof Dr. Md. Mamunur Rashid (BIM)	
1000 1015	<b>Tea Break [working]</b>	
1000 -1100	<b>Technical Session 9</b>	Venue: Room314-A
Session Chair	Prof Dr. M Sarwar Morshed (AUST)and Prof Dr. Md. Mamunur Rashid (BIM)	
ID	Title	Author(s)
90	Improvement of Transportation Efficiency Using Simulation-Based Decision Support System	
91	Risk Minimization of Warehousing System by showing Probable Total Costs towards any Certain Company with the help of Monte Carlo Simulation	

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84	Endogenous Uncertainties Of Agricultural Production Yield   Case Study	
81	Fuzzy Logic Application for Aircraft Landing Performance Analysis	
69	Productivity Improvement at a Soft Drink Manufacturing Company: A Case Study	
1000 -1100	<b>Technical Session 10</b>	Venue: Room B
Session Chair	Prof Dr. Md. Haider Ali Biswas, Khulna University and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
77	Mathematical Modeling Applied to Study the Effects of Wastage Produced from the Coal-Based Power Plant on Marine Ecosystem	
78	Mathematical Modeling Applied To Assess The Environmental Effect Of Smog Concentration In Dhaka City	
7	Analysis of National Skill Development Policy of Bangladesh-2011 : Problem & Prospect.	
8	Security Compliance of	
70	Impact of Workplace Conditions on Level of Employee Satisfaction	
1115-1615	<b>Student Talk for IMEOM</b>	Venue: Room-C
	Selection Round	
1100 1200	<b>Technical Session 1</b>	Venue: Room A
Session Chair:	Prof. Dr. Munnujahan Ara, Khulna University and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
59	Optimal Planning and Management of Groundwater Level Declination: A Mathematical Model	
60	Modeling The Dynamics of Spreading Rumors and Fake News Through Online and Social Media	
52	Optimal Control Applied to the Treatment Strategy for Chronic Liver Disease	
11	Designing and Organizing a Training Course in an Organizations	
56	Dissatisfaction in the workplace and its correlation to high staff turnover	
1100 1200	<b>Technical Session 2</b>	Venue: Room B
Session Chair:	Prof Dr. Shamsuddin Ahmed, IUT and Prof Dr. M Iqbal (SUST)	
ID	Title	Author(s)
10	Organizational Readiness for introducing a performance Management System.	
9	Major Barrier to Industrialization in Bangladesh	
40	Energy Recovery from Gas Distribution by incorporating Turbo Expander	Mohsina Morium
45	A Design Approach to Improve Existing CNG Filling Station by Improving the Layout	

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67	Using Total Productive Maintenance as an Assessment in Improving System Performance	
1200 - 1300	<b>Technical Session 3</b>	Venue: Room A
Session Chair:	Dr. Parveen Ahmed, Director, BIM and Prof Dr. M Sarwar Morshed (AUST)	
ID	Title	Author(s)
15	Characteristics Analysis of Laser Beam Machining Process	
2	Mathematical Modeling Of Friction On The Cutting Zone During Orthogonal Cutting	
75	Optimizing the Hotel Management System with Marketing Segments	
74	Particle transport through periodic tube with hexagonal cross-section	
68	A Comparative Analysis of Natural and Artificial Flavorings through Analytical Methods and Flavor Additive Regulations	
1200 - 1300	<b>Technical Session 4</b>	Venue: Room B
Session Chair	Prof Dr Ali, BUTEX and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
12	Numerical Analysis of Natural Convection Heat Transfer from Slender Body in a Channel	
5	Common Mistakes in Boiler Operation & Maintenance(Perspective Bangladesh)	
79	Study On The Use Of Agent Based Modeling To Simulate Consumer Behavior	
6	Problems and Prospect of Textile Industry in Bangladesh	
55	Productivity Improvement at Coca-Cola	
1300 1335	<b>Lunch and Prayer Break</b>	Venue: Cafeteria
1335 1400	<b>Afternoon Keynote</b>	Venue: Hall Main (Room A)
Keynote Speaker	Prof Dr. Shamsuddin Ahmed, IUT	
Title:	Industry –Academia Partnership in Engineering Education	
Session Chair:	Prof Dr. M Iqbal (SUST) and and Dr. A.R.M. Harunur Rashid (IUT)	
1400-1500	<b>Technical Session 5</b>	Venue: Room A
Session Chair	Prof Dr. Md. Zahid Hossain, IUT and Prof Dr. M Sarwar Morshed (AUST)	
ID	Title	Author(s)
22	Reduction of Power Consumption in Gas Booster Compressor	Mohsina
24	Experimental Analysis of CFRP Drill Hole Quality Based on Pre-Hole & Force	
89	Analysis and Optimization of Traffic Congestion at Single Intersection Using MATLAB and Arena	

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49	Implementation of TQM in a RMG factory- an empirical case study	
63	Effects of NACA 0012 and NACA 2412 Airfoils as Rear Spoilers on Sports Car Aerodynamic Drag & Lift: a CFD Study	
1400-1500	<b>Technical Session 6</b>	Venue: Room B
Session Chair	Prof. Dr. Nurul Absar Chowdhury, IUT and Prof Dr. M Iqbal (SUST)	
ID	Title	Author(s)
23	Sustainable conventional electricity generation	
64	Scrutinizing the Effect of Three Process Parameters on the Two Mechanical Characteristics of Lead-Tin Alloy Casting by Using Taguchi Orthogonal Array	
65	Acceleration analysis of transversely vibrated cracked shaft	
85	Development of PLC and SCADA based Central Alarm System for Glass Bottle Manufacturing Industry	
86	Application of PLC and SCADA Based Real-Time Online Counter for Glass Bottle Manufacturing Industry in Bangladesh	
1500-1600	<b>Technical Session 7</b>	Venue: Room A
Session Chair	Dr. Mamun Habib, BracU and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
39	Clean Power Generation in Bangladesh	Mohsina
66	Static and Fatigue Behavior Analysis of New Design Leaf Spring of Different Material Combination	
14	The hidden costs of servitized business models	
16	Employee Health, Safety & Accident In Pharmaceuticals Industry In Bangladesh	
17	Legal framework for the industrial relation system in Bangladesh	
1500-1600	<b>Technical Session 8</b>	Venue: Room B
Session Chair	Dr. A.S.M. Mojahidul Hoque, JUST and Dr. M. Hasanuzzaman, BUET/ Prof Dr. Md. Haider Ali Biswas, Khulna University	
ID	Title	Author(s)
20	Technological Change and Automation in Bangladesh	
27	World Trade Organization Rules on Sanitary and Phytosanitary Measures: Bangladesh Perspective	
29	Occupational Safety & Health for Hospital Workers in Dhaka	
87	Development of VFD, PLC and SCADA Based Fluid Temperature, Pressure and Level Control for Food Manufacturing Industry	
88	An Image Processing Based Glass bottle Defect Detection System	



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Title:	Technology Management	
Session Chair:	Dr. Engr. Md. Lutfur Rahman, Water Board	
930 1000	<b>Keynote</b>	Venue: A
Keynote Speaker	Prof Dr. Lal Mohan Boral, AUST	
Title:	Textile Engineering in Bangladesh	
Session Chair:	Prof Dr. Md. Haider Ali Biswas	
1000 1015	<b>Tea Break [working]</b>	
1015-1215	<b>Student Talk for IMEOM</b>	Venue: B
	Final Round	
1000 1100	<b>Technical Session 11</b>	Venue: Room A
Session Chair:	Dr. Md. Altab Hossain, MIST and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
30	Occupational Stress and work-life imbalance of Working Women-Bangladesh Perspective	
31	Quality and Safety Assurance in Ready Made Garments Industry	
32	Safety, Health and Welfare procedure of Garments sector in Bangladesh	
33	Health safety and hygiene in RMG in Bangladesh	
34	Maternity Benefits and Welfare.	
1000 1100	<b>Technical Session 12</b>	Venue: Room B
Session Chair:	Prof Dr Iqbal Mahmud ,MBSTU Textile and Prof Dr. Md. Mamunur Rashid (BIM)	
ID	Title	Author(s)
35	National child labour law 2006 in Bangladesh Perspective	
36	Effectiveness of laborlaw in Meghna Groupofindustries: Forces on section 78 to 99	
37	Implementation of labor law in terms of health & safety issues in RMG sector of Dhaka division	
38	Emerging Challenge and problems work place in Bangladesh	
42	Role and development procedure of executive personnel in Nestle Bangladesh Ltd	
1100 - 1200	<b>Technical Session 13</b>	Venue: Room A
Session Chair:	Prof Dr. M Iqbal (SUST) and Prof Dr. Md. Haider Ali Biswas, KU	
ID	Title	Author(s)
18	Determination of demand forecasting techniques applicable for electronics product (cell phone) and comparative analysis	
19	Study and evaluation of inventory management system of pharmaceutical products in a healthcare service facility	

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41	Study of Existing Safety Signs in Three Selected Thermal Power Plants Situated in Sylhet Division, Bangladesh	
47	Motivating and reinforcement safety and Healthy	
26	Effects of Environmental and Safety Factors on Productivity of RMG Industry in Bangladesh: A Survey-Based Approach.	
1100 - 1200	<b>Technical Session 14</b>	Venue: Room B
Session Chair	Dr. Shafiqul Islam, Head, Nuclear Dept and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
43	Proposed Assessment Model for Ship Recycling Industry in Bangladesh	
44	Global warming and Impact to Third World Countries	
46	Globalization and its impact on workers and industrial social work practices: Bangladesh Perspective	
50	Health Related Quality of Work Life in RMG sector in Bangladesh	
51	Compliance with the WHO Surgical Safety Checklist	
1215 1345	<b>Lunch and Prayer Break</b>	Venue: Cafeteria
1345 1600	<b>Industry-Academia and Global Engineering Education Panel Discussion</b>	Venue: A
Session Chair:	Prof Dr. Shamsuddin Ahmed, IUT and Prof Syed Fakhru Hassan, SEU	
1400-1500	<b>Technical Session 15</b>	Venue: Room A
Session Chair	Prof. Dr. Faruque A. Haolader, IUT and Prof Dr. M Sarwar Morshed (AUST)	
ID	Title	Author(s)
95	A Crowdsourced Approach for Supply Chain Network Optimization Using Hub and Spoke Model	
28	Curriculum and competence based education and training in Bangladesh	
53	Emerging Challenge and problems work place in Bangladesh	
54	5S in Total Productive Maintenance (TPM) : A case study	
61	A STUDY ON DIESEL ENGINE COMBUSTION	
1400-1500	<b>Technical Session 16</b>	Venue: Room B
Session Chair	Dr. A.R.M. Harunur Rashid (IUT)	
ID	Title	Author(s)
1	A Case Study on Optimization of Production Process in a Textile Industry	

