

Institute of Appropriate Technology  
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DOB: 30 January 1975  
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# Farid Ahmad

*Assistant Professor*

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## Research Areas

Social aspects, economics and complex dynamics of human-technology relations; Technology assessment, transfer and management; Empirical studies in economics and management of innovation with special interest in intellectual property; Science, technology and innovation policy; Environmental Management, Biotechnological Engineering: Health, Food and Biofuel; Textile Engineering: Wet Processing

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## Employment

2015–Present	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>Assistant Professor</b>
2014–2015	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>Research Lecturer</b>
2014	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>Senior PS to Vice-Chancellor</b>
2010–2014	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>PS to Vice-Chancellor</b>
2005–2010	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>APS to Vice-Chancellor</b>
2005	Dutch-Bangla Bank Limited, Head Office, Dhaka, Bangladesh <b>Officer (Credit &amp; Card Division)</b>
2003	The University of Comilla, Dept. of Food Science and Technology, Cumilla <b>Lecturer</b>
2002	Coca-Cola, Bangladesh, Abdul Monem Limited, Cumilla <b>Quality Control Officer</b>
2001	Bangladesh Chemical Industries Corporation (BCIC), Bangladesh <b>Assistant Engineer</b>
1996–2002	The New Nation, Ittefaq Group of Publications Ltd, Dhaka <b>Correspondent and Contributing Writer</b>

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## Education

2014–Present	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>Ph.D. in Chemical Engineering (Expected March 2024)</b>
2007–2013	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>M.Engg. in Environmental Engineering</b>
1995–2000	Bangladesh University of Engineering and Technology (BUET), Dhaka <b>B.Sc. in Chemical Engineering</b>

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## Awards, Scholarships and Achievements

### Reviewer of Journals

2019–Present	Advances in Economics and Business, USA and
2022–Present	International Social Science Journal (Q2), John Wiley & Sons
2022–Present	International Journal of Emerging Technologies in Learning (iJET), Scopus indexed
2021	Biomass Conversion and Biorefinery, Springer Nature
2018–2019	Journal of Materials and Environmental Science, Morocco
2018–Present	<b>Member, Project Management Team</b> Environmental Sustainability in Textile Industries (ESTex), ChE Department, BUET A PORTICUS Bangladesh Project worth EUR 1.2 Million over three years working for sustainability in textile industries of Bangladesh

- 2015–2016 **Principal Proponent**, Institute of Appropriate Technology (IAT)  
University Grants Commission of Bangladesh HEQEP Project worth USD 2.59 lakh titled,  
‘Establishment of the Technology Transfer Office in BUET’ over two years.
- 2006 **Research Assistantship**, Chemical Engineering Department,  
King Fahd University of Petroleum and Minerals (KFUPM), Kingdom Saudi Arabia
- 2005 **Foundation Training Award, Dutch-Bangla Bank Limited**  
A Bangladesh European Joint Venture Bank
- 2002 **Graduate Scholarship and Graduate Housing Scholarship**  
Texas A&M University–Commerce (TAMU), USA
- 1995–2000 **University Merit Scholarship**,  
Bangladesh University of Engineering and Technology (BUET), Dhaka
- 1993 **Appreciation Letter from Sheikh Hasina**, Honorable Prime Minister of  
Peoples Republic of Bangladesh and Daughter of the Father of the Nation, Bangladesh
- 1993–2000 **Education Board scholarship for Higher Secondary Certificate Examination**  
Cumilla, Bangladesh
- 1990–1992 **Merit Position in Board Examinations**  
Secondary and Higher Secondary Education Board, Cumilla, Bangladesh
- 1990–1992 **Education Board scholarship for Secondary School Certificate Examination**  
Cumilla, Bangladesh
- 1987–1990 **Junior Scholarship of District Education Office**  
Cumilla 3500, Government of Bangladesh

## **Publications**

### **Book Chapters**

1. Farid Ahmad, Anika Ferdous, and Mohidus Samad Khan, “Algae in a vat may power the future: A Review on Algal biodiesel production” in “BIOFUELS: Advances & Perspectives”, ed. Geetanjali Kaushik, Satish S. Patil, Shivani Chaturvedi, and Arvind L Chel, Publisher: Studium Press LLC, USA, 2018, ISBN No. 978-93-85046-22-3. Farid Ahmad, Anika Ferdous and Mohidus Samad Khan, “Algae in a vat may power the future: A Review on Algal biodiesel production” in “BIOFUELS: Advances & Perspectives”, ed. Geetanjali Kaushik, Satish S. Patil, Shivani Chaturvedi, and Arvind L Chel, Publisher: Studium Press LLC, USA, 2018, ISBN No. 978-93-85046-22-3

### **International Peer-Reviewed Journal Articles**

1. Rathin Chakraborty and Farid Ahmad (2022), 10:205 “Economical use of water in cotton knit dyeing industries of Bangladesh”, Journal of Cleaner Production, Elsevier, Volume 340, Article 130825, February 2022, <https://doi.org/10.1016/j.jclepro.2022.130825> ISSN (Print) 0959-6526, ISSN (Online) 1879-1786
2. Anika Ferdous, Md. Mursalin Rahman Khandaker, Farid Ahmad, John Liton Munshi, and Mohidus Samad Khan (2022), “Study of Growth Kinetics of High Lipid Content Algae in Local Environment”, Chemical Engineering Research Bulletin 22 (2020), June 2022, Pages 133-138, <http://banglajol.info/index.php/CERB> ISSN: 2072-9510 (Open Access), DOI: <https://doi.org/10.3329/cerb.v22i1.54312>
3. Dewan Sabbir Ahammed Rayhan and Farid Ahmad (2021), “Possible Technological Innovations for Industry 4.0 Practice in Furniture Industry of Bangladesh”, Review of Industrial Engineering Letters, 7(1), Conscientia Beam, April 2021, Volume 7, No 1, Pages 1-18, ISSN (Print) 2409-2169, ISSN (Online) 2408-9427, DOI: 10.18488/journal.71/2021.71.1.18
4. Md. Nur-E-Alam, Md. Abu Sayid Mia, Farid Ahmad, and Md. Ma zur Rahman (2020), 10:205 “An overview of chromium removal techniques from tannery effluent”, Applied Water Science, Springer, Volume 10, Issue 9, Article 205, August 2020, <https://doi.org/10.1007/s13201-020-01286-0> ISSN (Print) 2190-5487, ISSN (Online) 2190-5495.
5. Md. Nur-E-Alam, Md. Abu Sayid Mia, Farid Ahmad, and Md. Mafizur Rahman (2018), 8:129 “Adsorption of Chromium (Cr) from Tannery Wastewater using Low-cost Spent Tea Leaves Adsorbent”, Applied Water Science, Springer, Volume 8, Issue 5, Article 129, September 2018, ISSN (Print) 2190-5487, ISSN (Online) 2190-5495.
6. Md. Abu Sayid Mia, Md. Nur-E-Alam, Farid Ahmad, and M. Kamal Uddin (2017), “Implementation of Lean Manufacturing Tools in Footwear Industry of Bangladesh”, Aspects in Mining and Mineral Science, Volume 1, Issue 1, December 2017, Pages 17-25, 1000211, ISSN: 2578-0255 doi:10.31031/AMMS.2017.01.0005032.
7. Md. Abu Sayid Mia, Md. Nur-E-Alam, Farid Ahmad, Md. Zahangir Alam, and Md. Mafizur Rahman (2017), “Treatment of Tannery Wastewater by Electrocoagulation Technology”, Journal of Scientific and Innovative Research 2017; 6(4), Pages 129-134 ISSN 2320-4818.

8. Anika Ferdous, Farid Ahmad, Md. Shajid Khan, John Liton Munsh, Chapol Kumar Roy, Husna Parvin Nur, and Mohidus Samad Khan (2017), "Studying Growth Kinetics of *Chlorella vulgaris*, a Microalgae with High Lipid Content, to Produce Biodiesel in Local Condition", *Journal of Nature Science and Sustainable Technology*, Volume 11, Number 4, 2017, Pages 341-347, ISSN 1933-0324
9. Farid Ahmad, Md. Delwar Hossain, Shaikh Obaidullah Al Mahmood, and Md. Moshrrur Raihan (2017), "Implementing EMS in the Manufacturing Industries of Bangladesh: Drivers and Barriers", *International Journal of Scientific & Technology Research*, Volume 6, Issue 02, February 2017, Pages 164-166, ISSN 2277-8616.
10. Md. Abu Sayid Mia, Md. Nur-E-Alam, Farid Ahmad, and M. Kamal Uddin (2017), "Footwear Industry in Bangladesh: Implementation of Six Sigma Methodology", *Industrial Engineering & Management* 2017, Volume 6, Issue 2, 1000211, ISSN: 2169-0316 doi:10.4172/2169-0316.1000211.
11. Md. Abu Sayid Mia, Md. Nur-E-Alam, Farid Ahmad, A.B.M. Wahid Murad, and M. Kamal Uddin (2017), "Application of Lean Tools for the Improvement of Process Cycle Efficiency of Moccasin Shoe Production Line", *International Journal of Engineering and Management Research* 2017, Volume 7, Issue 6, November-December 2017, Pages 124-133, ISSN (ONLINE) 2250-0758, ISSN (PRINT) 2394-6962.
12. Mohidus Samad Khan, Md Mursalin Rahman Khandaker, Suman Nandy, Anika Ferdous, Laila Hossain, Samavi Farnush Bint-E-Naser, Farid Ahmad, John Liton Munshi , and Chapol Kumar Roy , "Prospect of biofuel in Bangladesh: Bioethanol and biodiesel production at local condition ", *Journal of Ecosystem & Echography* 2017, Volume 7, Issue 2 (Suppl), September 2017, Pages 41, ISSN:2157-7625, doi:10.4172/2157-7625-C1-029
13. Md. Abu Sayid Mia, Md. Nur-E-Alam, A.B.M. Wahid Murad, Farid Ahmad, and M. Kamal Uddin (2017), "Waste Management & Quality Assessment of Footwear Manufacturing Industry in Bangladesh: An Innovative Approach", *International Journal of Engineering and Management Research* 2017, Volume 7, Issue 4, July-August 2017, Pages 402-407, ISSN (ONLINE) 2250-0758, ISSN (PRINT) 2394-6962.
14. Md. Tushar Uddin, Md. Abdur Razzaq, Ariful Hai Quadery, Murshid Jaman Chowdhury, Al-Mizan, Md. Moshrrur Raihan, and Farid Ahmad (2017), " Extraction of Dye from Natural Source (LAC) & its Application on Leather", *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)* (2017), Volume 34, No 1, Pages 1-7, ISSN (Print) 2313-4410, ISSN (Online) 2313-4402.
15. Md. Moshrrur Raihan, Md. Razib Hosen, Md. Ashiqur Rahaman, and Farid Ahmad (2017), "Reducing of Chromium Intensity of Tannery Effluent by Using Low-Cost Adsorbents", *European Academic Research*, Volume IV, Issue 10, January 2017, Pages 8286-8294, ISSN 2286-4822.
16. Md. Moshrrur Raihan, Farid Ahmad, Md. Abdul Malek, and Farhan Kabir Shifat (2016), "Removal of Toxic Metal (Chromium) by Using Low-Cost Adsorbent in the Leather Processing Area Hazaribagh, Dhaka, Bangladesh", *International Journal of Current Research*, Volume 8, Issue 11, November 2016, Pages 41040-41042, ISSN 0975-833X.
17. Md. Monir Hossain, Deloar Hossain, Mohammad Afzal Hossain, Farid Ahmad, Md. Mozammel Hoque and Mizanur Rahman (2016), "Lead Time Reduction and Process Cycle Improvement of an Ice-cream Manufacturing Factory in Bangladesh by Using Value Stream Map and Kanban Board: A Case Study", *Australian Journal of Basic and Applied Sciences*, 10 (15), October 2016, Pages 250-260, ISSN1991-8178, EISSN 2309-8414.

### Peer Reviewed Conference Articles

1. Md. Ahsan Uddin Murad, Farid Ahmad, and Dilek Centindamar Kozanoglu, "Critical Success Factors of Technology Transfer: An Investigation into the Health Sector of Bangladesh using ISM-DEMATEL Approach", *PICMET 2021 Conference on Technology Management and Leadership in Digital Transformation*, Daejeon City, South Korea, August 8 - 12, 2021. This Paper will be presented in the PICMET'23 Conference to be held in Monterrey, Mexico on July 23-27, 2023.
2. Anika Ferdous, Md. Mursalin Rahman Khandaker, Farid Ahmad, and Mohidus Samad Khan, "Study of Growth Kinetics of High Lipid Content Algae in Local Environment", *International Conference on Chemical Engineering 2020 (ICChE-2020)*, BUET, Dhaka1000, Bangladesh, 20-22 December 2020, Article No. 106.
3. Rathin Chakraborty, Md. Mursalin Rahman Khandaker, Farid Ahmad, and Mohidus Samad Khan, "Bio-toxicity Analysis of Textile Dyeing Effluent Treatment Plant (ETP) Sludge", *International Conference on Chemical Engineering 2020 (ICChE-2020)*, BUET, Dhaka1000, Bangladesh, 20-22 December 2020, Article No. 100, (Accepted)
4. Maeen Md. Khairul Akter and Farid Ahmad, "Technology Adoption Strategy and Innovative Capacity in Garments Industry for Sustainable Development: Bangladesh Perspective", *International Conference on Sustaining Global Garment Industries 2019 (ICSG2i-2019)*, Organizer: Aalborg University, Denmark and Ahsanullah University of Science and Technology, Dhaka, Bangladesh, 5-7 March 2019, Article No. 043.
5. Maeen Md. Khairul Akter and Farid Ahmad, "Developing Sustainable Technology Transfer Center for Textile and Apparel Industries in Bangladesh", Type: Paper Presentation in a Themed Session, *Fifteenth International Conference on Environmental, Cultural, Economic & Social Sustainability*, Organizer: The On Sustainability Research Network , University of British Columbia Robson Square, Vancouver, Canada, 17-19 January 2019.

6. Mohidus Samad Khan, Md Mursalin Rahman Khandaker, Suman Nandy, Anika Ferdous, Laila Hossain, Samavi Farnush Bint-E-Naser, Farid Ahmad, John Liton Munshi and Chapol Kumar Roy, “Prospect of biofuel in Bangladesh: Bioethanol and biodiesel production at local condition”, International Conference on Environmental Microbiology and Microbial Ecology & Ecology and Ecosystems 2017 ,Toronto, Canada, 18-20 September 2017.
7. Anika Ferdous, Farid Ahmad, Md. Shajid Khan, John Liton Munsh, Chapol Kumar Roy, Husna Parvin Nur and Mohidus Samad Khan, “Studying Growth Kinetics of Chlorella Vulgaris, a Microalgae with High Lipid Content, to Produce Biodiesel in Local Condition”, International Conference on Petroleum Engineering 2016 (ICPE-2016), Dhaka-1000, Bangladesh, 31 December 2016, Article No. 051.

### **Research and Scientific Reports**

1. Farid Ahmad and Maeen Md. Khairul Akter (2018), “How Innovative is our Textile Industry? Research Review”, Textile Focus, Volume 03, Issue 02, March-April 2018, Pages 10-15, ISSN 2519-5956
2. Farid Ahmad and Maeen Md. Khairul Akter (2018), “Technology Transfer Mechanism for Textile Industry (Part-I)”, Textile Focus, Volume 03, Issue 04, August-September 2018, ISSN 2519-5956
3. Farid Ahmad and Maeen Md. Khairul Akter (2018), “Technology Transfer Mechanism for Textile Industry (Part-II)”, Textile Focus, Volume 02, Issue 05, October-November 2018, ISSN 2519-5956

### **Selected Work in Progress**

1. Evaluating the Fire-Reaction Properties of Building Materials Used in Informal Settlements in Bangladesh, with Dr. Swagata Dutta. Submitted to Materials Science Forum (MSF).
2. Heuristic approach for analyzing the determinants of environmentally sound technology adoption by leather industries in Bangladesh, with Farhan Kabir Shifat. In preparation.
3. Significant water use reduction in wet processes of knit fabric production in Bangladesh using sustainable technologies and practices, with Md. Farhad Hossain. In preparation.
4. Selection of an optimal and secured approach to facilitate development of IoT based smart city in Bangladesh, with A.K.M. Saifun Nabi. In preparation.
5. Behavioral pattern analysis of solar energy users of Bangladesh and proposal of an incentive regulation model to achieve energy sufficiency, with Hasan Al Bashar Abul Ulayee. In preparation.
6. Identification of topological features in technology transfer network associated with Bangladesh Footwear Industry, with Sudeb Das. In preparation.
7. Digitalized Agro-product Supply Chain Management in Bangladesh, with Mohammad Golam Mahiuddin. In preparation.
8. Integration of ICT with low cost automation for upgrading SMEs in Bangladesh, with Nesar Uddin Ahamed. In preparation.
9. Working as the principal proponent for establishing a Hi-Tech Lab for Light Engineering and Additive Products (Hi-Tech LEAP) at the Institute of Appropriate Technology (IAT), BUET, with Dr. Ifthekar Ahmed Khan
10. Working for establishing a Fire-testing Laboratory (FTL) at the Institute of Appropriate Technology (IAT), BUET, with Dr. Swagata Dutta. Submitted a research project to the Committee for Advanced Studies & Research (CASR), BUET, Dhaka, Bangladesh

### **Technical (Academic) Articles in the Print Media**

1. Farid Ahmad, “The Way Forward to Vaccine: Procurement and Preparation”, Daily Sun, Dhaka, Tuesday, October 6, 2020
2. Farid Ahmad, “The Economics of the Vaccine Business”, The Business Standard, Dhaka, Sunday, September 13, 2020
3. Farid Ahmad, “Rigmarole of Vaccines”, Daily Sun, Dhaka, Thursday, August 22, 2020
4. Farid Ahmad, “Bangladesh Needs R&D on Her Journey to Economic Development”, Daily Sun, Dhaka, Wednesday, July 15, 2020
5. Farid Ahmad, “This Pandemic Is Disintegrating Traditional Pedagogy”, Daily Sun, Dhaka, Thursday, June 11, 2020
6. Farid Ahmad, “Innovation for a Green Future”, Daily Sun, Dhaka, Saturday, May 9, 2020
7. Farid Ahmad, “Light engineering products: From local workshops to export baskets”, The Business Standard, Dhaka, Monday, January 27, 2020
8. Farid Ahmad, “Protection of intellectual property in sports tech can be a game-changer”, The Daily Star, Dhaka, Friday, April 26, 2019
9. Farid Ahmad, ‘Making computers meaningful’ The New Nation Magazine, Dhaka, Friday, December 25, 1999
10. Farid Ahmad, ‘Keep your city clean and green’ The New Nation Magazine, Dhaka, Sunday, November 15, 1998



## Print Media & Online News Portal Articles on Social Issues

1. Farid Ahmad, “Near the River Mari”, The Daily Observer, Dhaka, Saturday, February 26 , 2022
2. Farid Ahmad, “BUBBLES”, The Daily Observer, Dhaka, Saturday, February 19 , 2022
3. Farid Ahmad, “Poetry In Motion”, The Daily Observer, Dhaka, Saturday, February 12 , 2022
4. Farid Ahmad, "Purano Shei Diner Kotha (Auld Lang Syne), Noy Shunner Proyas”, Ekushe Book Fair, February 2022, Nree Prokashon, Dhaka, ISBN: 978-984-95612-1-7
5. Farid Ahmad, “Our Children Are Being Shaped by Crisis”, Daily Observer, Dhaka, Thursday, June 10, 2021
6. Farid Ahmad, “Gadhar Joygaan”, The Business Standard Online Version, Thursday, January 14, 2021
7. Farid Ahmad, “Dhorshon Piron”, The Business Standard Online Version, Tuesday, October 13, 2020
8. Farid Ahmad, “Vutopurbo Oviggota Ebong Ovutopurbo Corona”, Medium online publishing platform, USA, Sunday, May 03, 2020
9. Farid Ahmad, “Will Covid-19 rule the world?”, The Business Standard, Dhaka, Friday, April 17, 2020
10. Farid Ahmad, “Revisiting some scientific talks on Shab-e-Miraj”, Daily Sun, Dhaka, Friday, March 27, 2020
11. Farid Ahmad, “Breaking Ragging Bragging Culture”, Daily Sun, Dhaka, Friday, November 22, 2019
12. Farid Ahmad, “Halaler Proti Valobasha”, Barta24.com, a digital news outlet, Monday, June 17, 2019
13. Farid Ahmad, “Universities need more allocation and attachment for research activities”, The Daily Sun, Dhaka, Thursday, July 25, 2019
14. Farid Ahmad, “The Evolution of BUET”, BUET Convocation 2019 Memorabilia, Dhaka, Tuesday, March 19, 2019
15. Farid Ahmad, ‘Standard of our education system’ The New Nation Magazine, Dhaka, Friday, December 24, 1999
16. Farid Ahmad, ‘Of friends and friendship’ The New Nation Magazine, Dhaka, Friday, December 10, 1999
17. Farid Ahmad, ‘Of people and politics’ The New Nation Magazine, Dhaka, Friday, November 26, 1999
18. Farid Ahmad, ‘Marriage and its sequences’ The New Nation Magazine, Dhaka, Friday, October 08, 1999
19. Farid Ahmad, ‘Joint family gradually disintegrating’ The New Nation Magazine, Dhaka, Friday, July 30, 1999
20. Farid Ahmad, ‘BUET under crisis: Some lateral thinking’ The New Nation Campus, Dhaka, Monday, June 14, 1999
21. Farid Ahmad, ‘Women’s emancipation’ The New Nation Magazine, Dhaka, Friday, May 21, 1999
22. Farid Ahmad, ‘Unfair means in exams’ The New Nation Magazine, Dhaka, Friday, March 19, 1999
23. Farid Ahmad, ‘Want of morality’ The New Nation Magazine, Dhaka, Friday, March 12, 1999
24. Farid Ahmad, ‘Hortal: An outrage committed by the opposition’ The New Nation Magazine, Dhaka, Friday, February 19, 1999
25. Farid Ahmad, ‘English: Achilles’ Heel of our education’ The New Nation Magazine, Dhaka, Friday, February 12, 1999
26. Farid Ahmad, ‘How time flies’ The New Nation Magazine, Dhaka, Friday, January 29, 1999
27. Farid Ahmad, ‘Marriage-a solemn episode in one’s life’ The New Nation, Dhaka, Friday, January 1, 1999
28. Farid Ahmad, ‘Rickshaws: Silent enemy of city life’ The New Nation Magazine, Dhaka, Friday, December 04, 1998
29. Farid Ahmad, ‘Keep your city clean and green’ The New Nation Magazine, Dhaka, Sunday, November 15, 1998
30. Farid Ahmad, ‘Bangla Chhabi: A typical entertainment’ The New Nation Magazine, Dhaka, Sunday, November 01, 1998
31. Farid Ahmad, ‘The deprived children: Some empirical instances’ The New Nation Magazine, Dhaka, Sunday, September 20, 1998
32. Farid Ahmad, ‘Fundamentalism hence Communalism’ The New Nation Magazine, Dhaka, Sunday, August 30, 1998
33. Farid Ahmad, ‘Police story-3’ The New Nation Magazine, Dhaka, Sunday, August 09, 1998
34. Farid Ahmad, ‘Syatta sonata dharma Islam’ The New Nation Magazine, Dhaka, Sunday, August 02, 1998
35. Farid Ahmad, ‘Measures to prevent dowry’ The New Nation Magazine, Dhaka, Sunday, July 05, 1998
36. Farid Ahmad, ‘Unfair means in exams’ Dhaka Courier, Dhaka, Volume 14 Issue 46, June 12, 1998
37. Farid Ahmad, ‘Sudden increase of rape’ Dhaka Courier, Dhaka, Volume 14 Issue 42, May 15, 1998
38. Farid Ahmad, ‘Literacy’ Rising Stars, The Daily Star, Dhaka, Thursday, October 30, 1997

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## Teaching and Course Development

- 2022-onward **Economics of Innovation and Technological Change** (Proposed and prepared by me; Recommended by Research and Academic Committee for short term academic masterplan of BUET)
- Empirical methods: How do patents affect follow-on innovation? Evidence from the human genome, Innovation and organization, Technology search and innovation: An inquiry on external technology search through patent in-licensing and firms' technological innovations: Evidence from China, R&D Management, Economics of science, Innovation and standardization, IPR and open source, Innovation policy, Implementing a National Technology Strategy with Self-Organizing Industry Investment Boards
- 2022-onward **Energy and Environmental Sustainability** (Proposed and prepared by me; Recommended by Research and Academic Committee for mid term academic masterplan of BUET)
- Changing relationship between business and the natural environment, Challenges and opportunities for firms, Commitment to sustainable practices, Natural capital, Socially responsible business practices, Different facets of business including financing, risk management, measurement, competitive positioning, innovation, and strategy in the context of increasing pressures for improved environmental sustainability; How demands for sustainability changes the business environment; Clean energy and environmental policies, Climate policy, Energy policy and markets, Energy technology and Policy, Economics of Environmental Policy, Big Data & Public Policy, Cost Benefit Analysis, Sustainable Energy and Environmental Management, Sustainable initiatives, as environmental law to alternative energy financing, environmental management, earth science, and engineering, Economic development, Environmental law, pollution and utility regulation, and carbon credits to green energy financing, life cycle analysis, data analytics, and environmental justice, Environmental responsibility, Social progress, Policy pathways from a viable world to a livable world to a fair world to a sustainable future
- 2019-Present **Fundamentals of Management of Technology (Masters Course)**
- Conceptual setting of technology; technology and development, transformation of the world, technological change and society; attributes of technology; basic components of technology; technology production, assessment, forecasting, transfer; technology roadmap; innovation & diffusion; R&D management; technology based development; technology life cycle (TLC), product life cycle (PLC), PLC and international trade, PLC and international technology transfer, technological change and substitution, technology growth pattern, human surroundings, interaction of technology with human surroundings, basic concepts and frameworks for strategic decision making and planning; approaches to corporate strategy formulation and implementation; influence of technological change on different aspects of corporate strategy; integrating technology and business strategy; technology capabilities, technology infrastructure and technology climate for competitive edge; lessons learned from selected case studies.
- 2017-Present **R & D and innovation Management (Masters Course)**
- Basic concepts of R&D and R&D management; process of R&D management; organizing R&D, managing human resources for R&D; types of innovation; innovation and product lifecycle; innovation, financing and risk management; commercialization of new product; intellectual property rights (IPR) for new products; different methods of IPR: patents; trademarks; copyrights
- 2015-Present **Technology Transfer and Diffusion Techniques (Masters Course)**
- Concepts of transfer of technology (TT); advanced diffusion techniques, proactive diffusion methods and enforced diffusion methods; international transfer of technology through different mechanisms: purchase of plant, equipment and products, foreign direct investment, joint ventures, technical collaboration, subcontracting, turnkey contracts, production sharing, management contracts, international joint ventures, subcontracting including original equipment manufacturer arrangements, licensing including technical service agreements and franchising; company acquisition; strategic alliance; nature of technology market; negotiation for technology acquisition; valuation of technology; intellectual property protection and its role in international transfer of technology; pattern and criticism of TT, suitable environment for international transfer of technology; success factors of international transfer of technology
- 2015-2018 **Technology Assessment (Masters Course)**
- Principles of technology assessment (TA); types of industrial technology assessment; contemporary problems of technology; some precautions of technology assessment; technology assessment models; technology assessment concepts; various types of assessment; characteristics of TA; role of TA in developing countries; the process of TA; overall assessment and follow-up plan; tools and techniques of TA; general intuitive methods; important component methods; structural decomposition methods; holistic composition methods; methodological options for TA

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## **Presentations and Talks**

- 06/22 "Quality Management", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprises through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 06/22 "Integration of Innovation for Product Design and Manufacturing ", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprises through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 06/22 "Technology Management for Competitive Business", Workshop on Development of Competitive Business Plan with Modern Technologies in the era of IR 4.0 to enhance productivity of Light Engineering Sector, IAT, BUET, Bangladesh
- 06/22 "Productivity Management in Light Engineering Sector", Workshop on Development of Competitive Business Plan with Modern Technologies in the era of IR 4.0 to enhance productivity of Light Engineering Sector, IAT, BUET, Bangladesh
- 06/22 "Mapping a Business Model for Light Engineering Sector ", Workshop on Development of Competitive Business Plan with Modern Technologies in the era of IR 4.0 to enhance productivity of Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Prospects of 3D Printing Business in Bangladesh", 3D Printing Revolution in Light Engineering Sector (LES), IAT, BUET, Bangladesh
- 09/19 "Entrepreneurship Development for 3D Printing related Business in Bangladesh", 3D Printing Revolution in Light Engineering Sector (LES), IAT, BUET, Bangladesh
- 09/19 "Technological Innovation Imperatives and Management for Bangladesh Light Engineering Industries Globalization", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprise through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 09/19 "Importance of Research and Development (R&D) for Technological Breakthrough", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprise through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 09/19 "Light Engineering Business Ecosystem in Bangladesh", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprise through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 09/19 "Mapping a Business Model for Light Engineering Sector of Bangladesh", Workshop on Development of Competitive Business Plan with Modern Technologies in Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Organization of a Business Plan for Light Engineering Industries of Bangladesh", Workshop on Development of Competitive Business Plan with Modern Technologies in Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Integration of Modern Technologies in Conventional Light Engineering Sector of Bangladesh", Workshop on Development of Competitive Business Plan with Modern Technologies in Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Perspective and Contribution of Light Engineering Sector to the national Economy", Workshop on Re-engineering & Up-gradation of Machinery for Product Diversification and Enhancement of Export Potency in Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Products and Raw Materials Profile of Light Engineering Industries", Workshop on Re-engineering & Up-gradation of Machinery for Product Diversification and Enhancement of Export Potency in Light Engineering Sector, IAT, BUET, Bangladesh
- 09/19 "Appropriate Technologies for Light Engineering Industries of Bangladesh", Workshop on Re-engineering & Up-gradation of Machinery for Product Diversification and Enhancement of Export Potency in Light Engineering Sector, IAT, BUET, Bangladesh
- 08/18 "Management of Technological Innovation for Global Competition", Workshop on Conversion of Light Engineering Industries of Bangladesh into Globalized Enterprise through Technology Breakthrough and Innovation Promotion, IAT, BUET, Bangladesh
- 07/18 "Business Plan: Simple is the BEST!", Workshop on Development of Competitive Business Plan with Modern Technologies in Light Engineering Sector, IAT, BUET, Bangladesh
- 06/18 "Selection of Appropriate Technology for Light Engineering Sector", Workshop on Re-engineering & Up-gradation of Machinery for Product Diversification and Enhancement of Export Potency in Light Engineering Sector, IAT, BUET, Bangladesh

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## **Commissions of Trust**

- 2019-Present Reviewer of Journals: Advances in Economics and Business, ISSN: 2331-5059, USA and Journal of Materials and Environmental Science, ISSN: 2028-2508, Morocco
- 2018-Present Member, Project Management Team, Environmental Sustainability in Textile Industries (ESTex), a PORTICUS Bangladesh Project worth EUR 1.2 Million over three years, Chemical Engineering Department, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

2017-Present	Member, Intellectual Property Steering Committee (IPSC), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
2015-2018	Principal Proponent and Member, University Grants Commission (UGC) of Bangladesh HEQEP Project worth USD 2.59 lakh titled, 'Establishment of the Technology Transfer Office in BUET' over two years, Institute of Appropriate Technology (IAT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
2016-2018	Member, Self-Assessment Committee (SAC) of Institute of Appropriate Technology (IAT), UGC HEQEP Project titled: 'Institutional Quality Assurance Cell', Institute of Appropriate Technology (IAT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
2015-Present	Member, Research and Academic Committee (RAC), Institute of Appropriate Technology (IAT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
2015-2018	BIIS Secretary, Institute of Appropriate Technology (IAT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
2015-2016	BIIS Tabulator, Institute of Appropriate Technology (IAT), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, 2015-2016
2014-2015	Member Secretary, 'The Recommendation Committee of Nitimela 2015- Rules for recruitment/promotion/up-gradation/selection grade/senior grade etc. for about 1800 administrative officers and stass of Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

## Research Supervision

### MSc Theses Supervisor:

Nesar Uddin Ahamed Nayeem (2015-2017), Md. Ahsan Uddin Murad (2017-2019), Maeen Mohammad Khairul Akter (2017-2019), Hasan Al Bashir Abul Ulayee (2018-present), Saifun Nabi Shabuj (2018-present), Tanjil Ahmed (2018-present), Moshrrur Raihan (2017-present), Sudeb Das (2018-present), Mohammad Golam Mahiuddin (2018-present), Farhan kabir Shifat (2017-present), Farhad Hossain (2017-present), Atique Shariar (2017-present), Abul Hasanat (2018-present), Selim Reza (2019-present), Md. Touhidur Rahman (2019-present), Rathin Chakraborty (2019-present), Sayma Alam Suha (2019-2021), Isteak Mahmud (2022-present), Anamul Haque (2022-present), Kazi Rubayet Hossain (2023-present);

**Number of Post Graduate Students (As Supervisor):** 12 (Twelve)

**Number of Students Completed MSc Degree:** 05 (Five)

### MSc Theses Panel Member:

Md Abu Sayid Mia (2015), Nahee Ibna Zahid Zew (2015), Ali Ahsan (2016), Ariful Islam (2019), Shahed Mohammad Kazi Shayemur Rahman (2019), Sarnav Talukder (2019), Md. Adnan Hossain (2019), Kazi Sumaiya (2019), Md. Rasfeq Hossain (2020), Dewan Sabbir Ahammed Rayhan (2022), Rajan Ahmad (2022), Kalyan Brata Paul (2023), Prodip Kumar Biswas (2023), Md. Arif Uz Zaman (2023), Md. Hasanuzzaman (2023), Sadi Mohammad (2023), Md. Yusuf Ali (2023), Muhammad Ali Zinnah (2023)

## Extracurricular Activities

1997-Present	Contribute regularly to Bangladeshi mainstream newspapers (The Daily Star, The Business Standard, Daily Sun and The Observer) and literary and Scientific Magazines
2018	Authored a book on Liberation War of Bangladesh, titled 'Alokh Juddha'- Alokh Juddha', published by Chaitanya Publisher - 'Chaityanna Prokashon', Sylhet, Bangladesh
2013-Present	Participate regularly in different international writing competitions such as short story writing competition organized by Common Wealth Foundation, UK; Radio playwriting competition organized by BBC World Service & British Council and Flash fiction competition organized by Cesar Egido Serrano Foundation and the Museum of the Word, Spain
2017-2018	Selected as the Ambassador of the Word and the Spanish language in the world from Bangladesh, Cesar Egido Serrano Foundation and the Museum of the Word, Spain
2014	Authored a Radio Play 'I'm not a Ghost' for Radio Playwriting Competition organized by BBC World Service & British Council, UK
1996	Authored a Radio Play 'A Sweet Home' for Radio Playwriting Competition organized by BBC World Service & British Council, UK
1996-2002	Worked as a Correspondent and Contributing Writer at The New Nation, a National Daily English Newspaper, Ittefaq Group of Publications Ltd, Dhaka, Bangladesh

Last updated: July 1, 2023

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