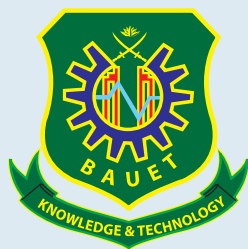


## Editor's Note



I feel honoured to take on the role of editor-in-chief of the *BAUET Journal*. It is very good that we have been able to continue our effort to publish the journal even in the pandemic situation.

The *BAUET Journal* offers wide-ranging publication of original research articles emphasizing on innovative ideas, methodologies and technologies unfolding significant and novel findings that address the current global issues and concerns related to Science, Engineering, Technology, Business, Agriculture, Social Science and similar disciplines.

*BAUET Journal* is an international academic research journal of Bangladesh Army University of Engineering & Technology (BAUET). The first issue of the *BAUET journal* was published in 2017 and now we are going to publish the volume 3, issue 1 of it. Around 50 manuscripts in various disciplines from home and abroad were received for this issue. After critical review of the received manuscripts by the experts, 17 quality articles have been accepted for publication in the current issue. Among these accepted articles 07 are from science & engineering areas, and 10 are from the areas of business, arts and humanities. A brief on the articles are appended below:

Osman and Imon have studied the utilization of machine learning techniques for economic growth prediction of Ghana in the paper titled “The Utilization of Statistical Machine Learning Techniques in the Prediction of Economic Growth in Ghana”. In this study, three different types of models- the supervised multiple linear regression model, the semi-supervised diagnostic-robust regression model and unsupervised principal component regression model-were evaluated, and found that the diagnostic-robust regression performs best for the causal linkage between economic growth and its associated economic variables.

In the article “Numerically Predicting Settlements and Stability of Slopes in Sand under Gravity Loading by Using Plaxis 3D”, Haque attempted to study the failure mechanism of slope and total settlement in sand under uniform gravity load using finite element code PLAXIS 3D. The study found that gravity loads and number of stories are influenced by the settlement of soil and stability of slope.

The recycling of used oil is shown in “Experimental Study on Recycling of Used Engine Oil Utilizing Various Acids as Washing Agent” by Hridoy et al. In this paper, an extensive research is carried out to recycle the used oil by various acids as washing agent.

“Natural Disaster Risk Assessment in the Coastal Area of Bangladesh: A Case Study on Cox’s Bazar Paurashava” by Ashraf Uddin Fahim and Sania Sifat Miti has explored some parameters regarding hazard, vulnerability and resiliency of the community in terms of the urban area of the coastal zone.

Nurunnabi and Hasan in the paper titled “High Purity Sodium Chloride Production from Impurities Salt using Crystallization Method” studied the three stage extraction process of NaCl, and found its purity by 99.8%. They also found that the 1<sup>st</sup> stage waste solution can be used as solvent in the 2<sup>nd</sup> stage production of NaCl.

Sayed and Mostafa studied the efficiency of FeSO<sub>4</sub> coagulant in removing color, COD, and turbidity from yarn in the paper “Efficiency Assessment of FeSO<sub>4</sub> Coagulant on Yarn Dyeing Industrial Effluent”.

Bishwas and Nur investigated the customer satisfaction towards Restaurant Industry Services in Bangladesh in the COVID-19 context in the paper “Customer Satisfaction towards Restaurant Industry Services in Bangladesh: Evidence from Covid-19 Pandemic”.

The online consumers’ buying pattern and attitude to E-Commerce during COVID-19 was investigated in the paper titled “Assessing Online Consumers' Buying Pattern and Attitude to E-Commerce during COVID-19: A Study in Dhaka City” by Akhter and Talukder.

“The Sufferings of Individuals due to Their Social and Religious Identity: A Study of Arundhati Roy’s *The Ministry of Utmost Happiness*” by Sumona et al. has demonstrated how social and religious identity become means of oppressing and humiliating people who do not fit in the stereotyped social system.

Rahman and Hasan studied the Ethnographic Perspectives on Cremation as Religious Practices in the paper titled “Fire and the Body: Ethnographic Perspectives on Cremation as Religious Practices of Mahato Community in Khirtala Village, Bangladesh”.

The paper “Negotiating Noosphere: Romantic Odyssey towards Authenticity” by Ayatulla and Alam studied how major romantic poets such as Wordsworth, Coleridge, Blake, and Keats negotiate the noosphere poetically as well as philosophically, making exceptional efforts to achieve a better mode of existence and authenticity of living.

Jahan and Chowdhury demonstrated the legal analysis in terms of defamation on cyber space in the paper titled “Defamation on Cyber Space: A Comparative Legal Analysis between Bangladesh and Malaysia”.

Mustarin investigated the glass ceiling as a threat to gender equality in Bangladesh in the paper “The Glass Ceiling as a Threat to Gender Equality in Bangladesh: Some Empirical Suggestions to Achieve Sustainable Development Goals”.

“Insanity Defence: A Fundamental Issue in the Criminal Justice System of Bangladesh” by Hasan has discussed the insanity defense with its history, standard, legal provisions on the insanity defense, existing principles etc. to uphold its purpose to be fundamental in Criminal Law Legal System.

“Access to Online System in Higher Education in Bangladesh during Covid-19 Pandemic: A Sociological Review from Students’ Perspective” by Mahzabin *et al.* is an article where thorough investigation of the access to online higher education system during Covid-19 pandemic is made.

Rabbani and Ahmed investigated the economic efficiency of Garlic production in Dinajpur in the paper titled “An Analysis of Economic Efficiency of Garlic Production in Selected Upazila of Dinajpur District in Bangladesh”.

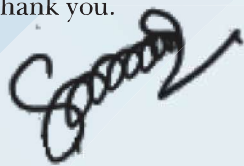
The last paper “Convergence of Intellectual Property Rights and Cyberspace”, Riya Gulati has studied the thrust of IPR violation in cyberspace by pivoting on the interface of Intellectual Property Rights and Digital Technology under the framework of Trademark and Copyright Laws of India.

I would like to welcome the knowledge-seekers to the readership of the *BAUET Journal*. We hope you will find this issue very much informative as usual.

Now I take the opportunity to thank our authors, editors and anonymous reviewers who have volunteered to contribute to the publication of the journal. I like to express my special and sincere thanks to Bangladesh Army, Board of Trustees of BAUET for their continuous support to publish this journal.

Finally, we hope that valuable and healthy contributions from all corners will continue for the upcoming issues of the *BAUET Journal*.

Thank you.



**Brig. Gen. Prof. M. Mustafa Kamal**

Editor-in-Chief, *BAUET Journal*

&

Vice Chancellor

Bangladesh Army University of Engineering & Technology (BAUET)

Qadirabad, Dayarampur, Natore-6431, Bangladesh