

Editorial Note

One of the hallmarks of International Islamic University Chittagong (IIUC) is its commitment to interdisciplinary research. This edition of the journal (IIUC Studies, Volume 19) exemplifies this commitment by presenting research from a wide array of disciplines, from the sciences to the social sciences and the humanities. Such diversity of thought fosters cross-pollination of ideas and serves as a fertile ground for innovation.

As editor of this esteemed publication, I am honored to present a diverse collection of research articles and creative works that continue to push the boundaries of knowledge and artistic expression. Our authors bring forth an array of research that transcends borders, revealing the shared human experiences that unite us all. As we peruse the pages ahead, we encounter research that seamlessly bridges gaps between disciplines, demonstrating that solutions to complex problems often emerge at the intersection of diverse knowledge domains.

In Mathematical analysis of a metamaterialstructure for Electromagnetic (EM) absorption reduction, Tanveer Ahsan presents development and analysis of a metamaterial structure for EM absorption reduction, which can operate 28 GHz 5G standards. EM absorption reduction by 62.29% makes the structure a potential candidate for safer 5Gcommunication system.

In his study, Teachers' perceptions of Bangladeshi EFL tertiary learners' writing challenges Shah Mohammad Sanaul Karim analyses the problems the Bangladeshi EFL tertiary learners face in the case of writing a paragraph. The study explores those difficulties in the planning, writing and revising stages of writing a paragraph are the major problems.

Shahidul Islam Khan introduced a crucial idea in the following study: Development of national health datawarehouse framework for Bangladesh. In this paper, the National Healthcare Data Warehouse (NHDW) framework for Bangladesh is proposed. The aim is to integrate the patient data from the different types of healthcare organizations and it provides an easily accessible, complete patient history all over the country. The researcher introduced strong health data to identify patients with uniqueness. The author is confident that the NHDW framework may significantly improve healthcare services in Bangladesh.

Md. Abu Saleh Nizam Uddin graphically portrays an interesting character, Alu while he examined *The Swamp Dwellers* by Wole Soyinka. Alu appears in a beautiful scenario in which she plays her roles in harmony with her nature in her family and society, and in her relationship with religion and nature. This paper explored that Alu in *The Swamp Dwellers* is an empowered woman with love, who simultaneously receives her rights as well as carries out her duties in family and society, and nurtures deep feeling for religion and nature. Thus, she becomes an example to inspire humanity in a world of human catastrophes.

A review of β -caryophyllene oxide for its pharmacological properties supported by in silico findings is a thought-provoking study done by A.T.M. Mostafa Kamal. This research provided strong evidence in favor of BCO with the ability to be a prospective therapeutic agent. However, from all the information gathered on this compound and clinical trials, this compound may yield beneficial results in the field of novel drug discovery. This remains a very helpful compound to be used in the field of drug therapy. The researcher is optimistic that clinical trials using this compound, if carried out properly may yield beneficial results in the concerned field.

Sayed Allamah Iqbal explores a wonderful idea in his Dynamical analysis of ant colony's collective decision making to explore food from two different resources. This investigation of the ant's food quest in this work concentrates on the dynamical analysis of their food exploration from two different resources described by two ordinary nonlinear differential equations (ODE). The mean-field model of ODE connected to their dynamical analysis demonstrates that food recruitment varies according to individual variability, supportive communication, and environmental restrictions establishing are connected to the stable system of the ODE.

In Quadriplegic patient assistive system for requirement sharing and home appliance control using 3-axis accelerometer with IoT, Md. Eftekhari Alam identifies that there are different types of symptoms depending on the disability. One of them is quadriplegia, and the patient can no longer move any part of the body. As a result, it is difficult to perform basic daily tasks for such patients. The purpose of the project is to allow people with disabilities to freely share needs and manage their home appliances independently. All quadriplegic people can use this and benefit from it. It was controlled by the movement of the human head.

Exploring Abul Hasan 'Alī Nadwī's views on distinctive features of Islamic civilization is a new dimensional study carried out by Saud Bin Mohammad and Adibah Abdul Rahim. The authors pointed out that despite its tremendous advancement, the Western civilization has been missing the key aspects of faith which according to Nadwi, is very fundamental to any civilization. Therefore, Western civilization does not have the capacity to take a lead for humanity. The capacity does not belong to any civilization except Islamic Civilization for it is grounded on monotheism (*tanbih*) and universalism (*al-alamiyah*) which is open for all irrespective of races and ethnicities.

In the spirit of nurturing creativity and inquiry, we also extend our gratitude to our dedicated reviewers and editorial board members who work tirelessly to ensure the quality and rigor of the scholarship presented here. It is their expertise and commitment that enable us to maintain the high standards for which this journal is known.

In conclusion, the Journal IIUC Studies is a steadfast advocate for the exploration of the human experience through the lens of creativity and inquiry. As we embark on this intellectual journey through the pages of this edition, we hope that you, our readers, will be inspired by the innovative research and artistic expression showcased here.