

SUSTAINABILITY REPORT 2023-2024

Contributions Towards SDGs

Edited by

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Daffodil International University

August 2024

SUSTAINABILITY REPORT 2023-2024

Contributions Towards SDGs

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Daffodil International University
Dhaka, Bangladesh

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Foreword

Daffodil International University is a young university in Bangladesh. The university has been maintaining educational quality since its inception in 2002. The prime intention was to produce graduates to fulfill demands of the country and serve the society around them and beyond. Apart from academic and co-curricular activities, the teaching and learning communities are highly encouraged to engage themselves in various development initiatives executed nationally and globally. The university has a reputation for its Information Technology (IT) supported infrastructure in Bangladesh and partnerships with the Government Organizations, industry, NGOs and international collaborators for their involvement in various development sectors. The stakeholders of the university are committed to working for the United Nations Sustainable Development Goals (SDGs). A lot of courses of different programs have been made aligned with the SDGs to acquaint the students with the challenges and identify solutions to act on it in a professional manner. Nevertheless, our contributions include several innovative projects which are under implementation at different departments and huge numbers of quality publications done by the faculty members jointly with the national and international partner universities. The Division of Research is managing a sustainability for development website to highlight our achievements and evidence and communicate to the international communities.

The sustainability report 2022- status of SDGs of DIU is an excellent initiative of the Division of Research. The report is a glimpse of the events, activities, ongoing projects, research outcomes and their significance, and the attainments. Mr. Mohammad Monir Hossain, Senior Assistant Director of the Division of Research has performed the key responsibility of collecting the facts and organizing the resources. Our esteemed colleagues from the Department of ESDM, Civil Engineering, Architecture, EEE, Public Health, Nutrition and Food Engineering and Law responded to my request in a timely manner and provided their scholarly inputs and outcomes. Our heartiest congratulations to the contributors for their outstanding performances.

Professor Dr. Md Kabirul Islam
Dean, Faculty of Graduate Studies (FGS)

Sustainability Related Partnership at a Glance



Recent Sustainability Related Rankings Achievements



Times Higher Education
Impact Rankings 2024

Ranks 1st in Bangladesh & 301+ in the world based on contributions to all 17 SDGs



Times Higher Education
Impact Rankings 2024

SDG 4: Quality Education- Ranks 1st in Bangladesh & 22nd in the world



Ranks 2nd in Bangladesh & 901+ in the world in QS Sustainability Rankings 2024



Ranks 1st in Bangladesh & 200th in the world



The WORLD
UNIVERSITY
RANKINGS
for INNOVATION

Ranks 1st in Bangladesh & 3rd in the world in Student Mobility & Openness Category

Sustainability Related Policy Implementation

1. [Anti-Harassment and Non-Discriminatory Policy](#)
2. [Grievance Policy and Procedure](#)
3. [Maternity Leave Policy](#)
4. [Policy for Managing Women’s Career Counseling Services](#)
5. [Equality, Diversity, and Inclusion Policy](#)
6. [Guidelines on Smoking Free Campus](#)
7. [Women Access, Participation, Counseling and Mentoring Policy](#)
8. [General Guidelines on Water Pollution Reduction](#)
9. [Sustainable Investment Policy](#)
10. [Pedestrian Walkway Safety Policy](#)
11. [Sustainable Procurement Strategy](#)
12. [Zero Emission Policy](#)
13. [Anti-Bribery and Anti-Corruption Policy](#)
14. [Policy Guidelines on Implementation of Sustainable Development Goals \(SDGs\)](#)
15. [Environmental Sustainability Strategy of DIU](#)

Sustainability website: <https://sustainability4d.daffodilvarsity.edu.bd/>



Contents

SUSTAINABILITY REPORT 2023-2024	1
SDG1:	8
SDG2:	15
SDG3:	22
SDG4:	32
SDG5:	44
SDG6:	50
SDG7:	57
SDG8:	65
SDG 9:	78
SDG10:	90
SDG 11:	100
SDG 12:	109
SDG 13:	118
SDG 14:	130
SDG 15:	136
SDG 16:	144
SDG 17:	155

SDG-wise Contribution and Progress

Daffodil International University



End Poverty in All its Forms Everywhere

SDG1:

Sustainable Development Goal 1, one of the 17 Sustainable Development Goals established by the United Nations in 2015, calls for the end of poverty in all forms. The official wording is: "No Poverty".

DIU's Contribution and Progress:

Number of low-income students receiving financial aid

Category	2023	2024
Full waiver/ 100% scholarship/financial aid	300+	350+
Partial scholarship/waiver/financial aid	7100+	14691
% of financial aid receiving students to total students	43%+	62.35%
Female students received financial aid	2200+	4000+
Scholarship for Under-represented groups	386	471 (3.2065%)
Scholarship for students with disability	12	14 (0.00953%)

Students coming from a rural background	90%+
Subsidized accommodation facilities for students	Male 3486 and Female 1873
Subsidized food facilities for students	10000+
Free laptop distributed to students in 2023-24	4000+

Scholarship Facilities for poor students at DIU:

- ✓ DIU Scholarship
- ✓ Need-based Waiver
- ✓ Talent Scholarship Program
- ✓ Freedom Fighter Quota Waiver
- ✓ Scholarship for 'Are you the next startup?'
- ✓ Chairman Endowment Fund Scholarship
- ✓ Lutfar Rahman Scholarship
- ✓ Razia Begum Scholarship
- ✓ Mofiz Uddin Majumder Scholarship
- ✓ Delwar Hussain Chowdhury Scholarship
- ✓ Late Hafez Md. Abdur Rahim and Late Mrs. Jarina Begum Scholarship
- ✓ Late Professor Dr. Ahmad Husain and Late Mrs. Mahbuba Hossain Scholarship
- ✓ Akij Group (Trust) Scholarship
- ✓ Talent hunt scholarship for foreign students <https://daffodilvarsity.edu.bd/int-scholarship/scholarship-int>

Link: <https://daffodilvarsity.edu.bd/scholarship>

One Student One Laptop initiative:

Till date more than 45000 laptops have been distributed to students free of cost

At university, however, these students are expected to be IT enabled, i.e., to have adequate access to computers and computing facilities to do their assignments, projects, online discussions and report writing. However, it has been found that the majority of these students are unable to purchase their own laptops for their personal use due to lack of money. The University has taken initiative to provide one laptop to every student under the project “One Student One Laptop” so that the students coming from poor and underprivileged families can use laptops to advance their IT-based knowledge and they do not lag behind due to their poverty. Till date more than 45000 laptops have been distributed to students free of cost.



Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-1. Below is a highlight of such contribution:

Title	Authors	Publication Source
Institutional factors and efficiency performance in the global microfinance industry	Mia, M.A. Rangel, G.J. Nourani, M. Kumar, R.	Benchmarking
Promises of English and English Language Learners in Rural Bangladesh	Shamsul Hoque, M. Monjurul Islam, M. Obaidul Hamid, M.	Journal of Asia TEFL
A regional appraisal of electricity accessibility determinants: the relevance of international remittances, clean energy, income inequality, and institutional quality	Murshed, M.	Environmental Science and Pollution Research

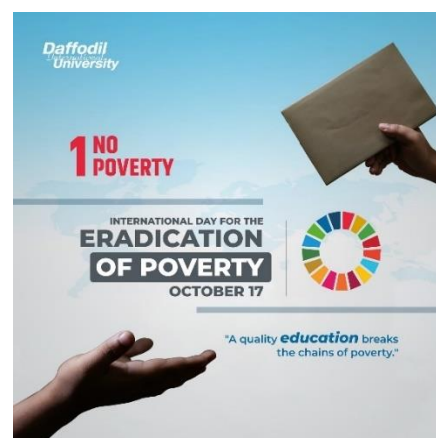
Mapping out the vulnerabilities of migrant women in the informal sector: A qualitative investigation in Dhaka city	Sifullah, M.K. Sohel, M.S. Hossain Sarker, M.F. Islam, M. Ahmad, M. Rahman, M.M.	Heliyon
Exploring barriers to accessing healthcare services for older indigenous people in the Chittagong Hill Tract, Bangladesh	Hossen, M.S. Sohel, M.S. Horaira, G.A. Laskor, M.A.H. Sumi, A.B.A. Chowdhury, S. Aktar, S. Sifullah, M.K. Sarker, M.F.H.	AIMS Public Health
Pre and Present COVID-19 Situation: A Framework of Educational Transformation in South Asia Region	Khan, S. Zayed, N.M. Darwish, S. Nitsenko, V. Anwarul Islam, K.M. Hassan, M.A. Dubrova, O.	Emerging Science Journal
Modeling eco-friendly house purchasing intention: a combined study of PLS-SEM and fsQCA approaches	Chanda, R.C. Vafaei-Zadeh, A. Hanifah, H. Thurasamy, R.	International Journal of Housing Markets and Analysis
Rural-urban disparities in nutritional status among ever-married women in Bangladesh: A Blinder-Oaxaca decomposition approach	Hossain, M.I. Habib, M.J. Zinia, F.A. Rahman, A. Methun, M.I.H. Haq, I.	PLoS ONE
Forecasting Tea Production in the Context of Bangladesh Utilizing Machine Learning	Ryan, A.A. Kh Shuversa, S. Mamun, S. Arpita, H.D. Ahamed, M.S.	ICCCNT 2023
Determinants of financial inclusion in South Asia: The moderating and mediating roles of internal conflict settlement	Murshed, M. Ahmed, R. Al-Tal, R.M. Kumpamool, C. Vetchagool, W. Avarado, R.	Research in International Business and Finance
Can energy productivity gains harness the carbon dioxide-inhibiting agenda of the Next 11 countries? Implications for achieving sustainable development	Murshed, M. Khan, U. Khan, A.M. Ozturk, I.	Sustainable Development
Rethinking energy poverty reduction through improving electricity accessibility: A regional analysis on selected African nations	Murshed, M. Ozturk, I.	Energy

Factors affecting multiple borrowing among microfinance clients: evidences from Bangladesh	Ali, I. Mia, M.A. Azman, A. Masron, T.A.	Asia-Pacific Journal of Business Administration
The Biggest Global Issues Facing Humankind: A Meta-Analysis of Poverty Alleviation and Poverty Eradication	Islam, M.A. Thottoli, M.M. Abdullah, A.B.M. Ahmad, T.S.T. Rahman, S.	Journal of Poverty
Climate Change and Aging Health in Developing Countries	Sarkar, S.M. Dhar, B.K. Fahlevi, M. Ahmed, S. Hossain, M.J. Rahman, M.M. Gazi, M.A.I. Rajamani, R.	Global Challenges
The relevance of reducing income inequality for eliminating urban-rural divide in clean cooking fuel accessibility: Evidence from Latin America and the Caribbean	Murshed, M.	Energy
Efficacies of technological progress and renewable energy transition in amplifying national electrification rates: contextual evidence from developing countries	Murshed, M.	Utilities Policy

Activities and Initiatives:

The International Day for the Eradication of Poverty Observed

The International Day for the Eradication of Poverty was observed by DIU that reminded the collective mission to eliminate poverty worldwide. Daffodil International University stands with this cause by empowering students through education, scholarships, and community outreach, helping to break the cycle of poverty. By investing in future leaders, DIU aims to contribute to a world where opportunities are accessible and poverty is no longer a barrier to success.



DIU Extends Educational Support: Full Scholarships for 50 Female Students from Palestine

Daffodil International University (DIU) has generously offered full scholarships to 50 female students from Gaza, Palestine, underscoring its commitment to global education and empowerment. The announcement was made during the visit of H.E. Mr. Yousef S.Y. Ramadan, Ambassador to the Government of the People's Republic of Bangladesh from the State of Palestine, who held discussions with the university's top management. This initiative reflects DIU's dedication to supporting education for underrepresented communities and fostering international collaboration.



Visiting low-income settlements (slums) of Dhaka City



SDGs are integrated with the teaching and learning practices at DIU. Students from the Department of Real Estate visit various slums in Dhaka every semester to study the housing conditions and facilities in low-income settlements as part of the course "Housing and Land Development." Through social and physical surveys, they gather data on housing conditions, including structure type, room size, rent, and affordability, as well as available facilities such as water, sanitation, electricity, gas, and kitchen amenities. They also assess the residents' family size, income, education level, and occupation, with the goal of identifying ways to improve their living conditions.

Empowering Flood-Affected Farmers with Seedlings to Combat Poverty

Department of Agricultural Science DIU providing both rice and vegetable seedlings to flood-affected areas supporting SDG 1: No Poverty. The initiative supports farmers in recovering their livelihoods by enabling them to resume agricultural activities. This effort reduces poverty in rural areas by ensuring that families dependent on farming can rebuild their incomes.



DIU & Prime Islami Life Insurance Aid Students in Need



Daffodil International University, in partnership with Prime Islami Life Insurance Limited, provided financial support to 40 students affected by the sudden demise of a guardians. Each student received 3 lakh TK from an insurance plan covering natural death, accidents, and disability. This initiative underscores DIU's commitment to student well-being and aligns with SDG 1 (No Poverty) and SDG 4 (Quality Education) by supporting students in need and ensuring access to education.

Winter Blankets Distributed to Underprivileged

Under the "Daffodil Prothom Alo Bondhushava" initiative, DIU distributed winter blankets to over 200 underprivileged individuals in Ashulia, Savar. This effort aims to address basic needs and support SDG 1 (No Poverty) and SDG 10 (Reduced Inequality) by providing warmth and relief during cold weather.





**End hunger, achieve
food security and
improved nutrition
and promote
sustainable agriculture**

SDG2:

Sustainable Development Goal 2 aims to achieve "zero hunger". It is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The official wording is: "End hunger, achieve food security and improved nutrition and promote sustainable agriculture".

Contributions and Progress:

At a glance:

Established relevant academic Departments	i) Department of Nutrition and Food Engineering (NFE) ii) Department of Agricultural Science
Students studying in these departments	1775
Number of students graduated from NFE Department and contributing to food industry at home and abroad	1000+
Food providing stalls in Food court	15
Full-fledged separate restaurant (Green-Garden)	1
Providing subsidized food for students through Green-Garden and Startup Foods at Food Court	15200+
Providing subsidized food for staff	1250+
Food choices for Veg and non-veg	Available https://greengarden.daffodil.university/display-board Startup Food Smart Edu - DIU
Organic waste management	Yes
Food waste reduced and managed on campus	1.5 metric ton

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-2. Below is a highlight of such contribution:

Title	Authors	Publication Source
Fuzzy logic, geostatistics, and multiple linear models to evaluate irrigation metrics and their	Zihad, S.M.R.A. Islam, A.R.M.T. Siddique, M.A.B. Mia, M.Y. Islam, M.S. Islam,	Environmental Research

influencing factors in a drought-prone agricultural region	M.A. Bari, A.B.M.M. Bodrud-Doza, M. Yakout, S.M. Senapathi, V. Chatterjee, S.	
Editorial: Community series in plants and microbial communities: diversity, pathogens and biological control, volume II	Wang, Y. Mridha, M.A.U.	Frontiers in Microbiology
A systematic review and meta-analysis of the role of nutrition and its impact on orthodontic treatment/management	Alam, M.K. Abutayyem, H. Alswairki, H.J. Hajeer, M.Y. Alogaibi, Y.A.	Journal of Orthodontic Science
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Impact of COVID-19 on Micronutrient Adequacy and Dietary Diversity among Women of Reproductive Age from Selected Households in Bangladesh	Tasnim, T. Karim, K.M.R.	Nutrients
Anthropogenic drivers induced desertification under changing climate: Issues, policy interventions, and the way forward	Pal, S.C. Chatterjee, U. Chakraborty, R. Roy, P. Chowdhuri, I. Saha, A. Towfiqul Islam, A.R.M. Alam, E. Islam, M.K.	Progress in Disaster Science
Millets as smart future food with essential phytonutrients for promoting health	Saleem, S. Mushtaq, N.U. Shah, W.H. Rasool, A. Hakeem, K.R. Seth, C.S. Tahir, I. Rehman, R.U.	Journal of Food Composition and Analysis
Climate change in Bangladesh: Temperature and rainfall climatology of Bangladesh for 1949-2013 and its implication on rice yield	Alam, E. Hridoy, A-E.E. Tusher, S.M.S.H. Islam, A.R.M.T. Islam, M.K.	PLoS ONE
Coupling of machine learning and remote sensing for soil salinity mapping in coastal area of Bangladesh	Sarkar, S.K. Rudra, R.R. Sohan, A.R. Das, P.C. Ekram, K.M.M. Talukdar, S. Rahman, A. Alam, E. Islam, M.K. Islam, A.R.M.T.	Scientific Reports
Potential benefits and therapeutic applications of "Panchgavya" therapy (Cowpathy) for human and animal health: Current scientific knowledge	Chandran, D. Ankitha Indu, J. Sivasabari, K. Meenakshy, S. Sreelakshmi, M. Amrithendhu, V.R. Ahamed, K. Ram, G. Mohan, D. Anamika, P. Chakraborty, S.	Journal of Experimental Biology and Agricultural Sciences

	Chopra, H. Akash, S. Amin, R. Ahmed, S.K. Dey, A. Sharma, A.K. Dhama, K.	
A Comprehensive Review of the Pharmacological Importance of Dietary Flavonoids as Hepatoprotective Agents	Gajender Mazumder, A. Sharma, A. Azad, M.A.K.	Evidence-based Complementary and Alternative Medicine
Exploring the nutritional and health benefits of pulses from the Indian Himalayan region: A glimpse into the region's rich agricultural heritage	Semwal, P. Painuli, S. Begum J.P, S. Jamloki, A. Rauf, A. Olatunde, A. Mominur Rahman, M. Mukerjee, N. Ahmed Khalil, A. Aljohani, A.S.M. Al Abdulmonem, W. Simal-Gandara, J.	Food Chemistry
Household vulnerability and resilience to natural disasters in Pakistan: A systematic literature review	Hossain, B. Sarker, M.N.I. Shi, G. Sohel, M.S.	Disaster, Displacement and Resilient Livelihoods: Perspectives from South Asia
Rural-urban disparities in nutritional status among ever-married women in Bangladesh: A Blinder-Oaxaca decomposition approach	Hossain, M.I. Habib, M.J. Zinia, F.A. Rahman, A. Methun, M.I.H. Haq, I.	PLoS ONE
Combining Fuzzy, Multicriteria and Mapping Techniques to Assess Soil Fertility for Agricultural Development: A Case Study of Firozabad District, Uttar Pradesh, India	Saraswat, A. Ram, S. AbdelRahman, M.A.E. Raza, M.B. Golui, D. HC, H. Lawate, P. Sharma, S. Dash, A.K. Scopa, A. Rahman, M.M.	Land
Local Vegetable Freshness Classification Based on Chronological Monitoring Using Transfer Learning Approach	Abeer, M.H. Lamia, M.N. Nafsi, J.F. Chowdhury, F. Anol, M.S. Ahamed, M.S.	IFIP Advances in Information and Communication Technology
Identifying factors affecting irrigation metrics in the Haor basin using integrated Shannon's entropy, fuzzy logic and automatic linear model	Mia, M.Y. Islam, A.R.M.T. Jannat, J.N. Jion, M.M.M.F. Sarker, A. Tokatli, C. Siddique, M.A.B. Ibrahim, S.M. Senapathi, V.	Environmental Research
Himalayan Wild Fruits as a Strong Source of Nutraceuticals, Therapeutics, Food and Nutrition Security	Semwal, P. Painuli, S. Jamloki, A. Rauf, A. Rahman, M.M. Olatunde, A. Hemeg, H.A. Abu-Izneid, T. Naz, S. Punia Bangar, S. Lorenzo, J.M. Simal-Gandara, J.	Food Reviews International
Depression level, nutritional status, and dietary nutrient intake	Tasnim, T. Sadiq, M.Z.A. Karim, K.M.R.	Heliyon

of the older adult at the community level in a selected area of Bangladesh		
The Paddy Procurement System for Sustainability: Evidence from Bangladesh Agriculture Sector	Islam, M.A. Islam, M.A. Sobhani, F.A. Royhan, P. Alam, M.K. Hassan, M.S.	Sustainability (Switzerland)
Lupenone, a wonder chemical obtained from Euphorbia segetalis to boost affinity for the transcriptional factor escalating drought-tolerance in Solanum Lycopersicum: A cutting-edge computational biology approach	Debnath, S. Alqahtani, T. Alqahtani, A. Alharbi, H.M. Akash, S.	PLoS ONE
Unveiling the Potential of Bacillus safensis Y246 for Enhanced Suppression of Rhizoctonia solani	Zhu, X.-C. Xu, S.-G. Wang, Y.-R. Zou, M.-T. Mridha, M.A.U. Javed, K. Wang, Y.	Journal of Fungi

Other Progresses:

World Food Day-2024 Observed: Ensure Food Safety, Security, and the Right to Food

On the World Food Day, the Department of Agricultural Science, DIU and the Department of Nutrition & Food Engineering arranged a rally to raise awareness about Food Safety, Security, and the Right to Food.



CHAIRMAN OF THE BOARD



Prof. Dr. Md Bellal Hossain
Honourable Chairman, FEAB
Education: Dhaka University
DEAN-FAHS Daffodil International University
Freedom Fighter



Contribution of DIU Dean as the Chairman of FEAB-Food Engineering Alumni of Bangladesh Foundation



COLLABORATION BETWEEN DIU & BARI

Daffodil International University (DIU) and BARI- Bangladesh Agricultural Research Institute have signed a groundbreaking Memorandum of Understanding (MoU). This partnership aims to advance agricultural research, technology transfer, and innovation.

Tele-nutrition program focused on adolescents

Dr. Arif Chowdhury Apou and Umme Habiba Tanny led a Tele-nutrition program aimed at providing crucial support and guidance to adolescents for healthier living. This initiative reflects our commitment to community engagement by empowering young individuals with the knowledge and resources to make informed dietary choices and lead healthier lives. The program aligns with SDG 3: Good Health and Well-being by promoting adolescent nutrition, SDG 4: Quality Education by educating youth on informed dietary choices, SDG 2: Zero Hunger by addressing nutrition and food security, and SDG 17: Partnerships for the Goals through collaborative health efforts.



Restoring Food Security: Seedling Distribution to Flood-Affected Communities

By distributing rice and vegetable seedlings, the department helps restore local food production, ensuring food security for flood-affected communities. This directly contributes to ending hunger, improving nutrition, and promoting sustainable agriculture.



Advancing Agricultural Knowledge: DIU Hosts Agricultural Machinery Fair and Seminar



The Department of Agricultural Science of DIU hosted an Agricultural Machinery Fair and Seminar, featuring machinery developed by the Bangladesh Agricultural Research Institute (BARI). The event aimed to educate students and faculty on the benefits of mechanization, demonstrate practical applications, and promote the adoption of advanced farming technologies. It also facilitated valuable knowledge exchange between BARI researchers and DIU attendees, highlighting research and development needs. Over 375 students gained practical

insights into agricultural machinery, enhancing their theoretical understanding and expertise in modern farming technologies. This initiative supports SDG 2 (Zero Hunger) and SDG 9 (Industry, Innovation, and Infrastructure), advancing agricultural practices and technological innovation.

SPK's Zero Budget Natural Farming: A New Wave in Agriculture

SPK (Subhash Paleker Krishi), founded by Padma Shri awardee Mr. Subhash Paleker, is gaining attention for its Zero Budget Natural Farming (ZBNF) approach. This initiative promotes sustainable agriculture and supports SDG 2 (Zero Hunger) and SDG 15 (Life on Land).



DIU's Department of Agricultural Science Empowers Future Leaders



The Department of Agricultural Science at DIU provides hands-on field classes, bridging theoretical knowledge with practical expertise. This approach aims to develop future leaders in agriculture, supporting SDG 2 (Zero Hunger) and SDG 4 (Quality Education) by fostering practical skills for a sustainable agricultural career.



SDG3:

Sustainable Development Goal 3, regarding "Good Health and Well-being", is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The official wording is: To ensure healthy lives and promote well-being for all at all ages.

DIU's Contributions & Progress:

Number of Graduates in Health disciplines	780+
Total graduates in all disciplines	Around 5,000
Number of academic departments in public health disciplines	4
Publication of Academic Journal: DIU Journal of Allied Health Sciences	2 Issues
Number of Students in Health disciplines	2,693
Number of Total Students	17120

DIU Medical and Fitness Center:

Medical Center	01 (with required amenities)
Emergency Health support	Yes
Ambulance service in campus	01 (24/7)
Full time doctors (Residents)	03 (MBBS)
Full time nurses	03
Full time Psychologists	02
Number of students received healthcare services	2056
Number of staff received healthcare services	857
Number of students received fitness/Gym facilities	1020
Number of staff received fitness/Gym facilities	105
First Aid Box	Available in every department

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-3. Below is a highlight of such contribution:

Title	Authors	Scopus Source Title
Nano-Conversion of Ineffective Cephalosporins into Potent One against Resistant Clinical Uro-Pathogens via Gold Nanoparticles	Rizvi, S.M.D. Hussain, T. Alshammari, F. Sonbol, H. Ahmad, N. Faiyaz, S.S.M. Kamal, M.A. Khafagy, E.-S. Moin, A. Abu Lita, A.S.	Nanomaterials
Contamination and ecological risk assessment of Cr, As, Cd and Pb in water and sediment of the southeastern Bay of Bengal coast in a developing country	Islam, M.S. Islam, M.T. Antu, U.B. Saikat, M.S.M. Ismail, Z. Shahid, S. Islam, A.R.M.T. Ali, M.M. Al Bakky, A. Ahmed, S. Ibrahim, K.A. Al-Qthanin, R.N. Idris, A.M.	Marine Pollution Bulletin
SARS-CoV-2 variant omicron XBB.1.5: challenges and prospects - correspondence	Channabasappa, N.K. Niranjan, A.K. Emran, T.B.	International journal of surgery (London, England)
Wave-Shaped Microstructure Cancer Detection Sensor in Terahertz Band: Design and Analysis	Khan, M.R.H. Chowdhury, A.A. Islam, M.R. Hosen, M.S. Mim, M.H. Nishat, M.M.	Applied Sciences (Switzerland)
The moderating role of market turbulence beyond the Covid-19 pandemic and Russia-Ukraine crisis on the relationship between intellectual capital and business sustainability	AlQershi, N. Saufi, R.B.A. Ismail, N.A. Mohamad, M.R.B. Ramayah, T. Muhammad, N.M.N. Yusoff, M.N.H.B.	Technological Forecasting and Social Change
Anxiety and Stress Related to COVID-19 Among the Community Dwelling Older Adults Residing in the Largest Refugee Camp of the World	Anwar, A. Yadav, U.N. Huda, M.N. Das, S. Rosenbaum, S. Ali, A.R.M.M. Mondal, P.K. Rizwan, A.A.M. Hossain, S.F.A. Das Shuvo, S. Mistry, S.K.	Community Mental Health Journal
Comparative Assessment of Three Medicinal Plants against Diabetes and Oxidative Stress Using Experimental and Computational Approaches	Shah, M.S. Talukder, M.S.H. Uddin, A.M.K. Hasan, M.N. Sayem, S.A.J. Mostafa-Hedeab, G. Rahman, M.M. Sharma, R. Swelum, A.A. Mohamed, A.A.-R. Emran, T.B.	Evidence-based Complementary and Alternative Medicine
Groundwater quality, fluoride health risk and geochemical modelling for drinking and irrigation water suitability assessment in Tundla block, Uttar Pradesh, India	Saraswat, A. Ram, S. Kouadri, S. Raza, M.B. Hombegowda, H.C. Kumar, R. Golui, D. Maurya, P.K. Ilić, P. Rahman, M.M. Jena, R.K.	Groundwater for Sustainable Development
Soil contamination and health risk assessment at coastal Upazilas of the Bangladesh: a case study	Kader Arafin, S.A. Meraz, M.M. Abdo, H.G. Rahman Sobuz, M.H. Meraz, M.M. Abedin, M.J. Ferdous, J. Fazlul Hoque, A.K.M. Almohamad, H. Abdullah Al Dughairi, A. Albanai, J.A.	Environmental Pollutants and Bioavailability
An Insight into COVID-19 and Traditional Herbs: Bangladesh Perspective	Rahman, M.M. Shohag, S. Islam, M.R. Akhter, S. Mim, S.A. Sharma, R. Rauf, A.	Medicinal Chemistry

Comparative Efficacy of Metformin and Glimepiride in Modulating Pharmacological Network to Increase BDNF Levels and Benefit Type 2 Diabetes-Related Cognitive Impairment	Anirudhan, A. Ahmad, S.F. Emran, T.B. Angulo-Bejarano, P.I. Sharma, A. Ahmed, S.S.S.J.	Biomedicines
Nanoinformatics and Personalized Medicine: An Advanced Cumulative Approach for Cancer Management	Khan, F. Akhtar, S. Kamal, M.A.	Current Medicinal Chemistry
Tumor-Net: convolutional neural network modeling for classifying brain tumors from MRI images	Bitto, A.K. Imam Bijoy, M.H. Yesmin, S. Mahmud, I. Mia, M.J. Badruzzaman Biplob, K.B.M.	International Journal of Advances in Intelligent Informatics
Exploring the role of natural bioactive molecules in genitourinary cancers: how far has research progressed?	Islam, F. Nath, N. Zehravi, M. Khan, J. Jashim, S.B.-T. Charde, M.S. Chakole, R.D. Kumar, K.P. Babu, A.K. Nainu, F. Khan, S.L. Rab, S.O. Emran, T.B. Wilairatana, P.	Natural Products and Bioprospecting
Level of fear towards COVID-19 and its determinants among healthcare providers in Malaysia: A cross-sectional study	Ching, S.M. Cheong, A.T. Yee, A. Thurasamy, R. Lim, P.Y. Ismail, I.Z. Mohammad, N.M. Ho, B.K. Ng, J.Y. Tan, S.F. Rashid, Z.Z.Z. Jogulu, S.R. Lee, K.W. Taher, S.W.	Malaysian Family Physician
A Critical Review on the Potency of Phytoconstituents in the Management of COVID-19	Raman, K. Rajagopal, K. Swaminathan, G. Jupudi, S. Dhama, K. Barua, R. Bin Emran, T. Osman, H. Khandaker, M.U.	Journal of Pure and Applied Microbiology
A Novel Hybrid Approach for Classifying Osteosarcoma Using Deep Feature Extraction and Multilayer Perceptron	Aziz, M.T. Mahmud, S.M.H. Elahe, M.F. Jahan, H. Rahman, M.H. Nandi, D. Smirani, L.K. Ahmed, K. Bui, F.M. Moni, M.A.	Diagnostics
Covid-19 effects on private tuition in bangladesh and internet of things based support system	Akhund, T.M.N.U. Newaz, N.T. Mesbahuddin Sarker, M.	International Journal of Computing and Digital Systems
Naringin and Naringenin Polyphenols in Neurological Diseases: Understandings from a Therapeutic Viewpoint	Emran, T.B. Islam, F. Nath, N. Sutradhar, H. Das, R. Mitra, S. Alshahrani, M.M. Alhasaniah, A.H. Sharma, R.	Life
The Fractal Viewpoint of Tumors and Nanoparticles	Alexiou, A. Tsagkaris, C. Chatzichronis, S. Koulouris, A. Haranas, I. Gkigkitzis, I. Zouganelis, G. Mukerjee, N. Maitra, S. Jha, N.K. Batiha, G.E.-S. Kamal, M.A. Nikolaou, M. Ashraf, G.M.	Current Medicinal Chemistry
The presence of toxic heavy metals in tuna fishes from Laccadive sea and concomitant health risk	Nadhiya, A. Khandaker, M.U. Mahmud, S. Abdullah, W.H.	Radiation Protection Dosimetry

Nigelladine A among Selected Compounds from Nigella sativa Exhibits Propitious Interaction with Omicron Variant of SARS-CoV-2: An in Silico Study	Miraz, M.M.H. Ullah, M.A. Nayem, A.A. Chakroborty, B. Deb, S. Laskar, A. Tithi, N.U. Saha, N. Chowdhury, A.R. Alam, K.M.K. Wahed, T.B. Khursheed Alam, M. Kundu, S.K.	International Journal of Clinical Practice
Impact on GDP and the stock market during pandemics or epidemics of 21st century	Hossen, M.A. Rahman, M.M. Nahid, M.N.A. Islam, R. Bانشال, S.K. Gupta, V. Dass, P.	Journal of Interdisciplinary Mathematics
Machine Learning-Based Model to Predict Heart Disease in Early Stage Employing Different Feature Selection Techniques	Biswas, N. Ali, M.M. Rahaman, M.A. Islam, M. Mia, M.R. Azam, S. Ahmed, K. Bui, F.M. Al-Zahrani, F.A. Moni, M.A.	BioMed Research International
Facile acid fermentation extraction of silkworm pupae oil and evaluation of its physical and chemical properties for utilization as edible oil	Ferdousi, L. Begum, M. Yeasmin, M.S. Uddin, J. Miah, M.A.-A. Rana, G.M.M. Chowdhury, T.A. Boby, F. Maitra, B. Khan, R. Emran, T.B. Siddique, M.A.B.	Heliyon
Assessment of radionuclides from coal-fired brick kilns on the outskirts of Dhaka city and the consequent hazards on human health and the environment	Siraz, M.M.M. Rakib, M.D.A. Alam, M.S. Al Mahmud, J. Rashid, M.B. Khandaker, M.U. Islam, M.S. Yeasmin, S.	Nuclear Engineering and Technology
Yellow fever virus, a mosquito-borne flavivirus posing high public health concerns and imminent threats to travellers - an update	Malik, S. Pandey, I. Kishore, S. Sundarajan, T. Nargund, S.L. Ghosh, A. Bin Emran, T. Chaicumpa, W. Dhama, K.	International journal of surgery (London, England)
Quantification of radiological hazards associated with natural radionuclides in soil, granite and charnockite rocks at selected fields in Ekiti State, Nigeria	Isinkaye, M.O. OlaOlorun, O.A. Chandrasekaran, A. Adekeye, A.S. Dada, T.E. Tamilarasi, A. Sathish, V. Khandaker, M.U. Almujaally, A. Tamam, N. Sulieman, A.	Heliyon
Perception and Preference of the Students for Online Education during COVID-19 in Bangladesh: A Study Based on Binary Logistic Regression	Sarker, M.F.H. Rahman, S.M. Khan, S. Sohel, M.S. Tamal, M.A. Khan, M.M.R. Islam, M.K.	International Journal of Emerging Technologies in Learning

Activities and Initiatives

DIU hosted two impactful events to promote mental well-being in the workplace



DIU organized a seminar on "Mental Health at the Workplace" where Dr. Mahjabeen Haque, Counseling Psychologist and Professor at Dhaka University, shared practical insights on managing stress and fostering a healthy work environment. DIU also arranged a workshop on "Balancing Wellbeing at the Workplace" where

Ms. Zohora Parveen, Clinical Psychologist at Dhaka University, led an interactive session with activities aimed at building mental resilience and work-life balance.

Advancing Healthcare through Research, Education, and Community Engagement: An Initiative by Daffodil International University

Daffodil International University (DIU), through its Health Informatics Research Lab (HIRL), aims to advance research and innovations in healthcare by developing and disseminating solutions that address health needs, inform policy, and support evidence-based decision-making. The initiative focuses on three key areas: (1) Research and Innovations in health care, (2) Education and Training to enhance human capital at all levels, and (3) Community Engagement through collaboration with international, regional, and national healthcare providers. Following a visit, the team will organize workshops, seminars, and submit research grant proposals. Visit: <https://www.facebook.com/hirlab>



Empowering Minds: Keynote on Personal Development with AIMST University's Faculty of Medicine



We have a collaboration with the Faculty of Medicine, AIMST University, Malaysia. Dr.

Moniruddin Chowdhury of AIMST University and Visiting Professor at the Department of Public Health, DIU, delivered a keynote speech on "Manage Your Mind and Achieve Your Best Self." The

session provided valuable insights and was an enriching experience for everyone involved. This collaboration supports SDG 3 (Good Health and Well-being) by addressing mental well-being and personal development. It also aligns with SDG 4 (Quality Education) by providing valuable insights and learning opportunities related to personal and professional growth.

Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh: A Workshop by UNICEF and ESDO



UNICEF and the Environment and Social Development Organization (ESDO) organized the

workshop "Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh," which focused on evaluating the country's current framework for addressing lead poisoning. Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, actively participated in discussions on the status of lead poisoning in Bangladesh, highlighting gaps in the existing legal policies.

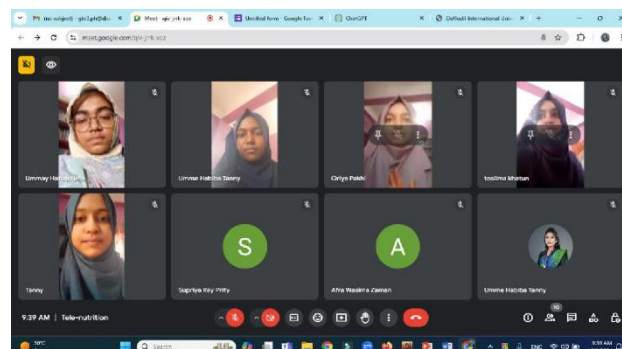
Exploring Yoga's Vital Role in Bridging



The Department of Public Health organized a seminar titled "Exploring Yoga's Vital Role in Bridging," held at the International Conference Hall, emphasizing the profound connection between body, mind, and soul. This event underscored the significance of yoga in fostering overall well-being, encouraging community participation in practices that enhance both physical health and mental clarity. The seminar supports SDG 3: Good Health and Well-being by promoting holistic health through yoga, SDG 4: Quality Education by educating the community on integrative health practices, and SDG 17: Partnerships for the Goals by fostering collective well-being initiatives.

Tele-nutrition program focused on adolescents

Dr. Arif Chowdhury Apou and Umme Habiba Tanny led a Tele-nutrition program aimed at providing crucial support and guidance to adolescents for healthier living. This initiative reflects our commitment to community engagement by empowering young individuals



with the knowledge and resources to make informed dietary choices and lead healthier lives. The program aligns with SDG 3: Good Health and Well-being by promoting adolescent nutrition, SDG 4: Quality Education by educating youth on informed dietary choices, SDG 2: Zero Hunger by addressing nutrition and food security, and SDG 17: Partnerships for the Goals through collaborative health efforts.



Adoption of the Framework Convention on Tobacco Control (FCTC) Article 5.3

The Department of Public Health had the privilege of attending the inaugural adoption of the Framework Convention on Tobacco Control (FCTC) Article 5.3 by medical students as a 'Guest of Honor.' This landmark event underscores our dedication to supporting initiatives that empower future healthcare professionals to take leadership roles in tobacco control and promote public health.

Seminar on the prevention and reversal of non-communicable diseases using lifestyle modification



The Department of Public Health at Daffodil International University recently organized an insightful seminar titled "The Science of Prevention and Reversal of Non-Communicable Diseases through Lifestyle Modification," featuring Dr. M. Jahangir Kabir (JK Lifestyle) as the keynote speaker. Dr. Kabir shared invaluable insights on how simple lifestyle changes can prevent and even reverse non-communicable diseases, offering our community

practical tools for improving health and well-being. This seminar supported SDG 3: Good Health and Well-being by focusing on disease prevention through lifestyle changes, SDG 4: Quality Education by providing practical health knowledge, and SDG 17: Partnerships for the Goals by collaborating with experts to promote wellness.

Dengue prevention and control awareness event



The Department of Public Health at Daffodil International University recently held a successful community-focused event to raise awareness about Dengue prevention and control. This effort underscores the university's commitment to promoting a healthier future, aligning with SDG 3: Good Health and Well-being by advancing health education on Dengue prevention.

Advancing Tobacco Research: DIU and BCCP Collaborate for Research Dissemination Conference



DIU collaborated with the Bangladesh Center for Communication Programs (BCCP) for research, and our students and faculty participated in a Research Findings Dissemination

Conference at the CIRDP International Conference Center, Dhaka. This collaboration supports SDG 3 (Good Health and Well-being) by focusing on tobacco research, which is crucial for understanding and addressing public health challenges related to tobacco use. It also aligns with SDG 4 (Quality Education) by engaging students and faculty in the dissemination of research findings and promoting educational opportunities in the field of public health.

Collaboration in Preventive Oncology with Gonoshasthaya Community-Based Cancer Hospital

Prof. Dr. Hafiz T. A. Khan, International Advisor, and Prof. Dr. ABM Alauddin Chowdhury, Head of the Department of Public Health at DIU, visited the country's first Preventive Oncology Department at Gonoshasthaya Community-Based Cancer Hospital and Research Centre to explore collaboration.



Exploring Collaboration with Police Staff College



We are exploring collaboration opportunities with Dr. Mohammad Shahjahan, Additional Deputy Inspector General of Police and Director of Research and Publication at the Police Staff College. This potential partnership aims to integrate public health research with law enforcement initiatives, enhancing both community health and public safety.

DIU and National Liver Foundation Collaborate on the NOHep Village Initiative for Hepatitis Prevention

The Department of Public Health at Daffodil International University (DIU) has partnered with the National Liver Foundation of Bangladesh (NLFB) to collaborate on the NOHep Village initiative. This collaboration aims to raise awareness, promote liver health, and prevent hepatitis in communities across Bangladesh. This collaboration aligns



with SDG 3 (Good Health and Well-being) by focusing on raising awareness, promoting liver health, and preventing hepatitis, thereby contributing to better health outcomes and disease prevention in communities across Bangladesh.

Exploring Collaborative Research in Prophetic Medicine with DOCTOR'S Cupping Corner

On August 8, 2024, the Department of Public Health at Daffodil International University (DIU) met with DOCTOR'S Cupping Corner in Shyamoli, Dhaka. The meeting, led by Dr. Sayed Al Mansur, Chairman of DOCTOR'S Cupping Corner, focused on exploring research collaborations in prophetic medicine and opportunities for public health studies at DIU. Dr. Md. Rakibul Hasan also represented DOCTOR'S Cupping Corner at the meeting.



Free Healthcare Initiative for underprivileged individuals by Daffodil Bandhushobha

On October 31, 2023 as part of Prothom Alo's 25th anniversary celebrations, Daffodil Bandhushobha provided free healthcare to over 200 underprivileged individuals in Ashulia, Dhaka. This initiative supports SDG 3 (Good Health and Well-Being) by enhancing access to medical services for marginalized communities.





Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

SDG4:

Sustainable Development Goal 4 is about quality education and is among the 17 Sustainable Development Goals established by the United Nations in September 2015. The full title of SDG 4 is "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all".

DIU's Contribution and Progress:

Teachers' Training:

Number of Faculty Received Training on pedagogy, OBE, and quality education	559
Department following implemented OBE curriculum	23
Number of graduates	5050
Proportion of graduates with relevant qualification for teaching	100%
Students' dropout reduced	30%
Sustainability related courses	250+

DIU has implemented and has been practicing the following policies to ensure access to its educational resources and events:

[Policy for Creating Opportunities for Local Communities for Accessing Library Resources](#)

[Policy for Creating Opportunities for Local Communities for participation in Events and Programs](#)

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-4. Below is a highlight of such contribution:

Title	Authors	Publication Source
Entrepreneurial intentions of Gen Z university students and entrepreneurial constraints in Bangladesh	Hossain, M.I. Tabash, M.I. Siow, M.L. Ong, T.S. Anagreh, S.	Journal of Innovation and Entrepreneurship
Leading towards the students' career development and career intentions through using multidimensional soft skills in the digital age	Shah, N. Bano, S. Saraih, U.N. Abdelwahed, N.A.A. Soomro, B.A.	Education and Training

Attention deficit hyperactivity disorder detection using deep learning approach	Hamim, M.A. Tanmoy, F.M. Tasfia, O. Juthi, F.A.	ICCCNT 2023
Blended learning pedagogy and its implementation in the tertiary education: Bangladesh perspectives	Mitra, S. Malek, M.A. Sultana, T. Pathak, A. Abedin, M.J. Kobra, K. Ullah, M.H. Khandaker, M.U.	Journal of Autonomous Intelligence
Climate Change and Humanitarian Responses: A Proposal of Education for Health Hazards Preparedness	Cardoso, J.C. Parveen, M. Fonseca, M.S.A. Grzelak, L.	Climate Change Management
Predicting User Perception Regarding Usefulness of Google Classroom Through Machine Learning Algorithms	Khan, E. Akter, A. Prity, S.S. Ur Rahman, F.	ICCCNT 2023
Pre and Present COVID-19 Situation: A Framework of Educational Transformation in South Asia Region	Khan, S. Zayed, N.M. Darwish, S. Nitsenko, V. Anwarul Islam, K.M. Hassan, M.A. Dubrova, O.	Emerging Science Journal
Preliminary Exploratory Study: Are HEPs Ready for Communication & Multimedia Micro Credentials Adoption in Malaysia?	Keoy, K.H. Iqbal, J. Ho, M.C. Ooi, P.B. Anjum, S.S. Koh, Y.J. Yeo, S.F. Teoh, W.Y. Lillian, S.Y.K.	ICDATE 2023
Analysing the current status, hotspots, and future trends of technology management: Using the WoS and scopus database	Yubo, S. Ramayah, T. Hongmei, L. Yifan, Z. Wenhui, W.	Heliyon
Social vulnerability, impacts and adaptations strategies in the face of natural hazards: insight from riverine islands of Bangladesh	Hossain, B. Shi, G. Ajiang, C. Sohel, M.S. Yijun, L.	BMC Public Health
Determinants of Bangladeshi patients' decision-making process and satisfaction toward medical tourism in India	Zakaria, M. Islam, M.A. Islam, M.K. Begum, A. Poly, N.A. Cheng, F. Xu, J.	Frontiers in Public Health

Early childhood developmental status and its associated factors in Bangladesh: a comparison of two consecutive nationally representative surveys	Hasan, M.N. Babu, M.R. Chowdhury, M.A.B. Rahman, M.M. Hasan, N. Kabir, R. Uddin, M.J.	BMC Public Health
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Activities and Initiatives:

4.1 Short Courses that are Open to All

Some of the short courses are mentioned below that are open to all.

Towards Excellence in Educational Leadership

The objective of this session is to provide educational leaders with valuable insights and strategies to enhance their leadership skills, drawing from Prof. Dr. Franco Gandolfi's extensive experience in diverse international educational



Link: <https://hrdi.ac/en/products/towards-excellence-in-educational-leadership>

UI/UX Design

ডিজাইনিং ক্যারিয়ারকে সর্বোচ্চ শেখড়ে পৌছে দিতে Human Resource Development Institute নিয়ে এসেছে UI-UX Course যা আপনাকে গড়ে তুলবে একজন সফল ও দক্ষ UI UX ডিজাইনার হিসেবে।

এই কোর্সটি করে আপনারা শিখতে পারবেন -
১। ডিজাইনের বিভিন্ন স্টাইল. স্ট্রাকচার সম্পর্কে



Link: <https://hrdi.ac/en/products/uiux-design>

PGD in Supply Chain Management

ব্যবসায় সাপ্লাই চেইন ম্যানেজমেন্ট অত্যন্ত গুরুত্বপূর্ণ। প্রস্তুতকারকদের পর্যাপ্ত পণ্য উৎপাদন, অতিরিক্ত ইনভেন্টারি কমানো এবং স্টোরেজ খরচ কমিয়ে বাজারের চাহিদা মেটানো...সবকিছুই একটা সুগঠিত সাপ্লাই চেইন ম্যানেজমেন্ট সফ্রম করে। অর্থনৈতিক স্থিতিশীলতা এবং একটি



Link: <https://hrdi.ac/en/products/pgd-in-supply-chain-management>

Training on Classroom Management for Digital Era



Link: <https://hrdi.ac/en/products/training-on-classroom-management-for-digital-era>

4.2 Outreach Educational Activities Beyond Campus

HRDI's Session at ACI Limited



HRDI conducted its 4-day long Essential English for Business Writing training for ACI Limited personnel. The skills training was led by Ms. Tahsina Yasmin, Associate Professor of English and Additional Director at HRDI. The day 1 offered professionals a great opportunity to refine their business email writing skills.

HRDI's Professional English Communication Training at Data Crafters

HRDI has launched its Professional English Communication Training in partnership with Data Crafters, marking our second collaboration. On day one, participants underwent an English Proficiency Assessment focused on Business and Job Communication, with interactive, game-based learning using tools like Quizizz. Led by Ms. Tahsina Yasmin, participants are now on the path to enhancing their business communication skills.



Visit to Creative IT: Exploring New Opportunities

HRDI, DIU visited Creative IT Institute to explore exciting possibilities. During the meeting, they discussed potential programs like PGD in Leadership, IT, and Web & E-commerce, along with launching CS and CSO initiatives. Creative

IT also introduced their inspiring Creative Junior Project. DIU is thrilled to continue this partnership and strengthen our collaboration.

Delegates from the National Institute of Youth Development, Bangladesh, Visited HRDI

They toured Daffodil International University and explored HRDI's work in skill development, sharing insights on their own initiatives. Engaging discussions on potential joint ventures took place with HRDI and DIU's esteemed officials and faculty. Exciting collaborations may soon be on the way as we move towards a skilled future.



Soft Skills Training at ACED School



future.

HRDI hosted an engaging session, "Fun & Learn with Soft Skill: Enhance Your Own Creativity," at ACED School, focusing on creativity and essential soft skills. The interactive event, with active participation from school students, aligns with SDG 4 (Quality Education) by fostering creativity and personal growth. Thanks to ACED School for the warm welcome, as HRDI continues to empower youth for a brighter

Innovative Faculty Training Embraces Outdoor-Based Learning

DIU's Fall '23 Faculty Training on August 24th highlighted effective classroom management and the innovative Outdoor-Based Classrooms (OBC) approach. Educators explored high academic and behavior expectations, engaging lesson delivery, and fostering a strong classroom culture. This initiative supports SDG 4 (Quality Education) by integrating nature with learning, thanks to insightful presentations by Emran Khan and Amir Hamza.



Outreach Professional English Communication Training at M.M. Ispahani Limited



A strong introduction is key to lasting impressions and impactful connections. Through interactive games, participants honed their skills while drawing inspiration from Ms. Tahsina Yasmin's career

journey. The training helped the participants M.M. Ispahani Limited learnt the of mastering formal introductions.

Safety and Security Management Training for Mitsubishi Motors BD employees

On August 18th, HRDI-DIU conducted a comprehensive training for Mitsubishi Motors BD employees. Led by experts of this field, the session covered fire safety, first aid, emergency evacuation, theft protection, and digital security. Through hands-on drills and interactive modules, participants were equipped to recognize hazards, create action plans, and improve communication for better preparedness. Stay tuned for more impactful HRDI sessions.



Empowering University Teachers with AI: Tools and Techniques for Effective Teaching



This engaging session is designed to equip educators with cutting-edge tools and techniques, enabling them to harness the full potential of AI for more effective and innovative teaching methodologies. Delve into hands-on demonstrations, interactive sessions, and real-world applications, empowering you to integrate AI seamlessly into your teaching practices. Join us on this educational journey as we unlock the doors to a future where AI enhances the teaching experience and elevates student engagement to new heights.

Session on Key Roles and Responsibilities of the Mentees at DIU



HRDI, in collaboration with the Office of the Future at DIU, held an insightful training session on the roles and responsibilities of TAs, RAs, and SAs at DIU. Prof. Dr. Mohammad Rakibul Kabir, Director of HRDI, warmly welcomed the attendees before Prof. Dr. M. R. Kabir led the session, filled with valuable insights. The event concluded with an engaging open discussion, making it a valuable experience for all participants

HRDI Elevates Research Skills

HRDI's workshop on "Blending Qualitative and Quantitative Approaches" led by Mr. Md. Salman Sohel, focused on integrating qualitative and quantitative research methods and approaches like inductive, deductive, and abductive reasoning to create impactful research projects. At the end of the session, participants were surprised by the announcement of the upcoming course: Mastering Qualitative Research with NVivo. Stay tuned for more exciting opportunities from HRDI.



4.3 Access to Events by Outsiders:

Amio Jitte Chai DIUDC National Debate Festival 2024



Amio Jitte Chai - DIUDC National Debate Festival 2024 was held at Daffodil Smart City. This exciting 3-day event, brings together 64 debate teams from schools and universities across Bangladesh. Participants will engage in debates on crucial

national issues, cultural performances, and workshops, all aimed at empowering youth and promoting democratic values. With the support of **Democracy International** and key speakers from civil society, this festival promises to inspire and shape the voices of tomorrow.

Craftsmanship Course: Mastering Skills in Architecture and Construction

The "Craftsmanship" course, guided by Course Tutor Md. Nazmul Hoque Nayeem, emphasizes the expertise and quality work involved in the art of architecture and construction. Over a 15-week period, students engage with materials such as wood and metal, honing their skills in cutting, joining, assembling, and project execution. This hands-on course highlights the significance, value, and opportunities that craftsmanship offers, empowering students to develop a precise sense of detailing. By blending creativity, composition, and ergonomics, students are prepared to become better architects, equipped with essential craftsmanship skills for their future careers. This initiative



aligns with SDG 4 (Quality Education) by fostering practical skills and enhancing educational outcomes for students in architecture.

Mini Training Session on SDGs and Young Leadership by Architect Rifat Akter Sheuly

On May 25th, 2024, alumni Architect Rifat Akter Sheuly, also a UPG Sustainability Leader, conducted a mini training session at the Department of Architecture, Daffodil International University. The session focused on the Sustainable Development Goals (SDGs) and emphasized the crucial role of young leadership in advancing these global objectives.



Advancing Healthcare through Research, Education, and Community Engagement



Daffodil International University (DIU), through its Health Informatics Research Lab (HIRL), aims to advance research and innovations in healthcare by developing and disseminating solutions that address health needs, inform policy, and support evidence-based decision-making. The initiative focuses on three key areas: (1) Research and Innovations in health care, (2) Education and Training to enhance human capital at all levels, and (3) Community Engagement through collaboration with international, regional, and national healthcare

providers. Following a visit, the team will organize workshops, seminars, and submit research grant proposals. Visit: <https://www.facebook.com/hirlab>

ICT Training for Healthcare Professionals

On May 12, 2024, we conducted ICT training for health professionals at the Directorate General of Medical Education, aimed at enhancing their digital literacy and effective use of technology in healthcare. This training is designed to improve healthcare delivery by integrating modern ICT tools into everyday medical practices, significantly contributing to SDG 4: Quality Education. By equipping healthcare professionals with essential digital skills, we promote lifelong learning and enhance



the quality of education and training in the medical field, ultimately leading to better health outcomes.

Promoting SDG 4 through Practical Learning: Enhancing Access, Skills, and Sustainability in Higher Education

SDG 4 aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

Here's how practical classes relate to SDG 4:

- Target 4.3: Practical learning enhances access to quality technical, vocational, and tertiary education by providing hands-on skills and real-world applications, making education more relevant and effective.
- Target 4.4: These classes help students develop skills that are necessary for employment and entrepreneurship, promoting competency in their respective fields.
- Target 4.7: Practical education promotes knowledge of sustainable development, helping students apply theoretical knowledge to address real-world challenges like agriculture, technology, and environmental sustainability.

By offering practical, skill-based education, universities ensure that students are better prepared for the workforce and are equipped with the knowledge to contribute to sustainable development, which is a key goal of SDG 4.



Hosted Bangladesh Olympiad in Informatics 2024 National Round: Open to all school & College Students

The Bangladesh Olympiad in Informatics 2024 National Round took place on April 26 and 27, 2024, at Daffodil Smart City, bringing together the brightest young programmers from across the country. This prestigious programming competition provided a platform for high school and college students passionate about coding to showcase their problem-solving skills and creativity in addressing complex programming challenges. Organized by Bangladesh Olympiad in Informatics and hosted by the Department of Computer Science & Engineering at Daffodil International University (DIU), in collaboration with the DIU Computer and Programming Club (CPC) and sponsored by Dutch-Bangla Bank PLC, the event not only tested the computational abilities of young minds but also served as a stepping stone for future innovations in computer science. This initiative aligns with SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure), fostering a community of excellence in programming and nurturing the next generation of innovators.



Empowering Future Leaders: DIU's Growing Star Program-Spring 2024 Concludes Successfully: Open to all College Students

The DIU Growing Star Program-Spring 2024 recently concluded, marking a successful initiative aimed at enhancing the potential and problem-solving skills of pre-university students. The program was designed to prepare students for global competition and establish DIU as a leading institution in developing future leaders. Participants

were assessed on their knowledge in fundamental courses and strategies were developed to address any gaps. Chief Guest Prof. Dr. M. Kaykobad, Distinguished Professor at BRAC University and former Professor at BUET, provided valuable insights that enriched the event.

DIU Hosts Purdue University Delegation for Teaching Excellence Workshop



Daffodil International University recently hosted a delegation from Purdue University Fort Wayne for a week-long workshop on innovative teaching. The program, featuring Dr. Ron Friedman and other Purdue educators, focused on "Teaching, Research, and Service in the Contemporary World," discussing AI in education and fostering teaching resilience. Dr. Md. Sabur Khan highlighted the importance of AI and Faculty Development

Grants. This collaboration supports SDG 4 (Quality Education) by enhancing teaching practices and fostering international academic partnerships.

DIU Faculty Engage in International Faculty Development Program 2024



Associate Prof. Mohammad Sarwar Mollah and Prof. (Dr.) Fizar Ahmed from DIU are participating in the 8th International Faculty Development Program (IFDP) 2024 at Chandigarh University. This program aims to explore collaborations in research and teaching, enhancing expertise and international academic ties, supporting SDG 4 (Quality Education) by fostering global educational exchange. Over 110 academics from 87 universities across 32 countries are involved in

this initiative.

Strengthening Global Research Collaboration for Sustainable Development: DIU and UiTM Partnership

The Faculty of Business and Entrepreneurship (FBE) at Daffodil International University (DIU) has initiated a pivotal research collaboration with Universiti Teknologi Mara (UiTM), Malaysia. This partnership, underscored by the visit of delegates led by Dr. Nor Balkish Zakaria and Dr. Muhammad Nazmul Hoque, aligns with several Sustainable Development Goals (SDGs). The collaboration focuses on advancing six research projects, fostering academic exchange, and enhancing



research quality through joint journal reviews and potential supervision of UiTM's postgraduate students by FBE faculty. Chaired by Professor Dr. S.M. Mahbub Ul Haque Majumder, the discussions emphasized the importance of expanding future research opportunities, engaging both academic and non-academic staff, and ensuring a high level of collaborative research.



DIU's Participation in International Teaching Week 2024

Professor Dr. Liza Sharmin, Dean of DIU's Faculty of Humanities and Social Sciences, represented DIU at the International Teaching Week 2024 at Mykolas Romeris University, Lithuania, from May 6-10, 2024. Funded by the EU's Erasmus+ KA171 ICM Project, Dr. Sharmin conducted classes on English for Specific Purposes (ESP), networked with global peers, and engaged with the Faculty of Humanities and Social Studies. This initiative supports SDG 4

(Quality Education) by enhancing educational collaboration and international learning experiences.



Achieve gender equality and empower all women and girls

SDG5:

Sustainable Development Goal 5 concerns gender equality and is fifth of the 17 Sustainable Development Goals established by the United Nations in 2015. The 17 SDGs recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability.

DIU's Contribution and Progress:

Percentage of Female Students	39%+
Increase of Female Students	2.5%
Percentage of Female Faculty	49.5%
Increase of Female Faculty	0.5%
Female students' accommodation in Female hostels	1850+
Percentage of Female students graduated	35%+

DIU has implemented the following policies to ensure equality, diversity and Inclusion

Sl. No	Topic
1	Maternity Leave Policy
2	Anti-Harassment and Non-Discriminatory Policy
3	Policy for Managing Women's Career Counseling Services
4	Women Access, Participation, Counseling and Mentoring Policy
5	Equality, Diversity, and Inclusion Policy

Scholarship Facilities for poor students at DIU:

Link: <https://daffodilvarsity.edu.bd/scholarship>

Female Hostel Facility:

There are three hostels for female students' accommodation at DIU.

1. Rowshan Ara Scholars Garden 1
2. Rowshan Ara Scholars Garden 2
3. DISS Female Hall

Hall facilities: <https://hall.daffodilvarsity.edu.bd/>

Childcare Facilities for Female students and staff at DIU campus:

Number of Children received facilities at childcare center	50+
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Link: <https://daffodilvarsity.edu.bd/daycare/daycare-facility>

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-5. Below is a highlight of such contribution:

Title	Authors	Publication Sources
Mapping out the vulnerabilities of migrant women in the informal sector: A qualitative investigation in Dhaka city	Sifullah, M.K. Sohel, M.S. Hossain Sarker, M.F. Islam, M. Ahmad, M. Rahman, M.M.	Heliyon
Enhancing Women's Safety Through Customized Smartphone Sensor Data: A Human Activity Recognition System	Islam, Y. Nowrin, S. Faqih, M.I. Sultana, F. Bahadur, E.H. Masum, A.K.	Proceedings of 2023 IEEE 9th International Women in Engineering (WIE) Conference on Electrical and Computer Engineering, WIECON-ECE 2023
Studies on the prevalence of HIV/AIDS in Bangladesh including other developing countries	Mominur Rahman, M. Islam, F. Saidur Rahaman, M. Sultana, N.A. Fahim, N.F. Ahmed, M.	Advances in Traditional Medicine

Rural-urban disparities in nutritional status among ever-married women in Bangladesh: A Blinder-Oaxaca decomposition approach	Hossain, M.I. Habib, M.J. Zinia, F.A. Rahman, A. Methun, M.I.H. Haq, I.	PLoS ONE
Patterns and Aftermath of Sexual Health-related Misuse of Digital Media in Bangladesh: A Public Health Concern	Bakibillah, A.H.	Open Public Health Journal
Breaking the Cycle of Injustice: Investigating Restorative Justice Solutions for Street Begging Children in Dhaka City, Bangladesh through a Comprehensive Socio-Legal Analysis	Haque, S.M.S. Chakrabarty, S.P.	Indian Journal of Law and Justice
Knowledge, attitudes, and practices of female health care service providers on female genital mutilation in Somalia: A cross-sectional study	Mehriban, N. Zafar Ullah, A.N. Haque, M.I. Harun, M.G.D. Isse, D.M. Muhammad, F. Chowdhury, A.B.M.A. Chowdhury, M. Hasan, M.Z. Dessoffy, T.	Women's Health
Determinants of women's entrepreneurial performance: Evidence from Bangladesh	Akhter, A. Ali, M.J. Tanchi, K.R. Latif, W.B. Karim, Md.M.	Problems and Perspectives in Management

Activities and Initiatives

Promoting Campus Safety: DIU Hosts Awareness Session on Preventing Sexual Harassment

Daffodil International University (DIU) organized an Awareness Session on the Prevention of Sexual Harassment, facilitated by Professor Dr. Mehtab Khanam, a distinguished psychotherapist from Bangladesh. The session, conducted by the Complaint Committee to Prevent Sexual Harassment, explored how childhood experiences and attachment styles influence adult behavior. This critical discussion aimed to raise awareness and foster understanding, contributing to the creation of a safer and more



respectful campus environment. The initiative aligns with SDG 5 (Gender Equality) and SDG 16 (Peace, Justice, and Strong Institutions), promoting safety and respect within the academic community.

Access, Participation & Counseling for Female



The Psychological Service Unit of the Students' Affairs Department at DIU organized two successful workshops on "Managing Exam Stress" for the residents of Rowshan Ara Scholars Garden (DIU's female hall) in order to equip students with effective strategies to handle exam-related stress and enhance their well-being during the challenging exam period.

Fostering International Collaboration for Sustainable Development Goals Through Storytelling



The "Swinburne's Study Tour 2024: The Digital and Mobile Storytelling Festival" at Daffodil International University marks a significant milestone in international collaboration for gathering data relevant to the Sustainable Development Goals (SDGs). This 14-day program involves 22 students and two faculty members from Swinburne University of Technology in Australia and is supported by the Australian Government's New

Colombo Plan. Participants are divided into groups focusing on urban life representation, child labor, and women's empowerment, directly aligning their work with SDG 11 (Sustainable Cities and Communities), and SDG 5 (Gender Equality). By documenting urban environments, addressing the issue of child labor, and exploring women's challenges, this initiative contributes valuable insights and data to inform policies and drive progress towards achieving these critical global objectives. Overall, the Swinburne Study Tour exemplifies how academic partnerships can enhance understanding of pressing global issues while advancing collective efforts to create a more just and sustainable world.

DIU Extends Educational Support: Full Scholarships for 50 Female Students from Palestine



Daffodil International University (DIU) has generously offered full scholarships to 50 female students from Gaza, Palestine, underscoring its commitment to global education and empowerment. The announcement was made during the visit of H.E. Mr. Yousef S.Y. Ramadan, Ambassador to the Government of the People's Republic of Bangladesh from the State of Palestine, who held discussions with the university's top management. This initiative reflects DIU's dedication to supporting education for underrepresented communities and fostering international collaboration.



DIU Professor Joined the 2nd Annual Conference on 'The Collective: Women in Legal Philosophy'

Professor Dr. Kudrat E Khuda Babu from the Department of Law, DIU, participated in the 2nd Annual Conference on 'The Collective: Women in Legal Philosophy' at Balliol College, University of Oxford, on June 22, 2024. The conference focused on advancing women's contributions to legal theory and philosophy, addressing topics such as human rights and moral agency. With 30 participants, including academics and activists, Dr. Babu's presence highlighted DIU's commitment to SDG 5 (Gender Equality) and SDG 16 (Peace, Justice, and Strong Institutions).

DIU Celebrates International Women's Day with Pride and Joy



Daffodil International University celebrated International Women's Day with a vibrant rally, cake-cutting, and an insightful session on women's empowerment. The event highlighted the achievements of women globally and promoted gender equality, aligning with SDG 5 (Gender Equality) and SDG 10 (Reduced Inequalities).



**Ensure availability
and sustainable
management of water
and sanitation for all**

SDG6:

Sustainable Development Goal 6 is about "clean water and sanitation for all". It is one of the 17 Sustainable Development Goals established by the United Nations General Assembly in 2015.

According to the United Nations, the goal is to: "Ensure availability and sustainable management of water and sanitation for all."

DIU's Contributions and Progress:

Total volume of water consumed	3,00,000+ cubic meters
Volume of treated water consumed	80,000+ cubic meters
Per person water consumption	15+ cubic meters
Number of free drinking water purification device	40+
Transformation of Polluted water lake	1
Free drinking water provided to number of persons	20,000+
Setting up waste water treatment	1
Water Treatment Plant	1

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-6. Below is a highlight of such contribution:

Title	Authors	Publication Source
Fuzzy logic, geo-statistics, and multiple linear models to evaluate irrigation metrics and their influencing factors in a drought-prone agricultural region	Zihad, S.M.R.A. Islam, A.R.M.T. Siddique, M.A.B. Mia, M.Y. Islam, M.S. Islam, M.A. Bari, A.B.M.M. Bodrud-Doza, M. Yakout, S.M. Senapathi, V. Chatterjee, S.	Environmental Research
Contamination and ecological risk assessment of Cr, As, Cd and Pb in water and sediment of the southeastern Bay of Bengal coast in a developing country	Islam, M.S. Islam, M.T. Antu, U.B. Saikat, M.S.M. Ismail, Z. Shahid, S. Islam, A.R.M.T. Ali, M.M. Al Bakky, A. Ahmed, S. Ibrahim, K.A. Al-Qthanin, R.N. Idris, A.M.	Marine Pollution Bulletin
Successive Photocatalytic Degradation of Methylene Blue by ZnO, CuO and ZnO/CuO Synthesized from Coriandrum sativum Plant Extract via Green Synthesis Technique	Basit, R.A. Abbasi, Z. Hafeez, M. Ahmad, P. Khan, J. Khandaker, M.U. Al-Mugren, K.S. Khalid, A.	Crystals

Groundwater quality, fluoride health risk and geochemical modelling for drinking and irrigation water suitability assessment in Tundla block, Uttar Pradesh, India	Saraswat, A. Ram, S. Kouadri, S. Raza, M.B. Hombegowda, H.C. Kumar, R. Golui, D. Maurya, P.K. Ilić, P. Rahman, M.M. Jena, R.K.	Groundwater for Sustainable Development
Plastic, Plastic Pollution and Plastic Recycling: An Overview in Bangladesh Perspective	Babu, K.-E.-K.	Indian Journal of Environmental Protection
Hexavalent chromium removal from aqueous medium by ternary nanoadsorbent: A study of kinetics, equilibrium, and thermodynamic mechanism	Uddin, Md. Saha, G.C. Hasanath, Md. Badsha, M.A.H. Chowdhury, M.H. Towfiqul Islam, A.R.Md.	PLoS ONE
Analysis of Water Quality of Hatirjheel Lake, Dhaka, Bangladesh	Kamal Pasha, A.B.M. Mustafa, S.O. Mahmudur Rahman, S.M. Abdullah, M. Chowdhury, M.A.H. Parveen, M.	Nature Environment and Pollution Technology
Spatiotemporal trends and characteristics of microplastic contamination in a large river-dominated estuary	Rakib, M.R.J. Al Nahian, S. Madadi, R. Haider, S.M.B. De-La-Torre, G.E. Walker, T.R. Jonathan, M.P. Cowger, W. Khandaker, M.U. Idris, A.M.	Environmental Science: Processes and Impacts
Occurrence and characterization of β -lactamase-producing bacteria in biomedical wastewater and in silico enhancement of antibiotic efficacy	Mannan, S.J. Akash, S. Jahin, S.A. Saqif, A.T. Begum, K. Yasmin, M. Ahsan, C.R. Sitotaw, B. Dawoud, T.M. Nafidi, H.-A. Bourhia, M.	Frontiers in Microbiology
Qualitative and Quantitative Investigation of Biochar-Cu ₀ Composite for Nickel Adsorption	Din, S.U. Murtaza Awan, J. Imran, M. Ahmad, P. Haq, S. Shakil, S. Al-Mugren, K. Alotibi, S. Alharthi, A.I. Khan, M.S. Khandaker, M.U.	ACS Omega
Spatiotemporal analysis and predicting rainfall trends in a tropical monsoon-dominated country using MAKESENS and machine learning techniques	Monir, M.M. Rokonzaman, M. Sarker, S.C. Alam, E. Islam, M.K. Islam, A.R.M.T.	Scientific Reports

Spatio-temporal assessment of water quality of a tropical decaying river in India for drinking purposes and human health risk characterization	Hoque, M.M. Islam, A. Islam, A.R.M.T. Das, B.C. Pal, S.C. Arabameri, A. Khan, R.	Environmental Science and Pollution Research
A study into the long-overlooked carcinogenic radon in bottled water and deep well water in Dhaka, Bangladesh	Al Mahmud, J. Siraz, M.M.M. Alam, M.S. Das, S.C. Bradley, D.A. Khandaker, M.U. Tokonami, S. Shelley, A. Yeasmin, S.	International Journal of Environmental Analytical Chemistry
Groundwater level fluctuations and associated influencing factors in Rangpur District, Bangladesh, using modified Mann-Kendall and GIS-based AHP technique	Monir, M.M. Sarker, S.C. Sarkar, S.K. Ahmed, M. Mallick, J. Islam, A.R.M.T.	Theoretical and Applied Climatology
Modeling and Simulation of 4.8 kW Grid Connected Solar PV Based Water Pumping System for Sustainable Agricultural Irrigation	Halder, S. Baten, T.	2023 10th IEEE International Conference on Power Systems, ICPS 2023
Impact of River Water Quality on Public Health in Perspective of Asian Rivers: A Case Study of Buriganga River, Bangladesh	Pasha, A.B.M.K. Nur, M.S. Mozumder, S. Parveen, M.	Journal of Environmental and Earth Sciences
Advanced Applications of Carbonaceous Materials in Sustainable Water Treatment, Energy Storage, and CO ₂ Capture: A Comprehensive Review	Reza, M.S. Afroze, S. Kuterbekov, K. Kabyshev, A. Zh. Bekmyrza, K. Haque, M.N. Islam, S.N. Hossain, M.A. Hassan, M. Roy, H. Islam, M.S. Pervez, M.N. Azad, A.K.	Sustainability (Switzerland)
Porous Hierarchical Ni/Mg/Al Layered Double Hydroxide for Adsorption of Methyl Orange from Aqueous Solution	Waheed, T. Din, S.U. Ming, L. Ahmad, P. Min, P. Haq, S. Khandaker, M.U. Boukhris, I. Faruque, M.R.I. Rehman, F.U. Din, I.U.	Nanomaterials
Synthesis and Performance Evaluation of Novel Bentonite-Supported Nanoscale Zero Valent Iron for Remediation of Arsenic Contaminated Water and Soil	Raza, M.B. Datta, S.P. Golui, D. Barman, M. Das, T.K. Sahoo, R.N. Upadhyay, D.	Molecules

	Rahman, M.M. Behera, B. Naveenkumar, A.	
Assessing lake water quality during COVID-19 era using geospatial techniques and artificial neural network model	Mohinuddin, S. Sengupta, S. Sarkar, B. Saha, U.D. Islam, A. Islam, A.R.M.T. Hossain, Z.M. Mahammad, S. Ahamed, T. Mondal, R. Zhang, W. Basra, A.	Environmental Science and Pollution Research
Toxic dye removal, remediation, and mechanism with doped SnO ₂ -based nanocomposite photocatalysts: A critical review	Roy, H. Rahman, T.U. Khan, M.A.J.R. Al-Mamun, M.R. Islam, S.Z. Khaleque, M.A. Hossain, M.I. Khan, M.Z.H. Islam, M.S. Marwani, H.M. Islam, A. Hasan, M.M. Awual, M.R.	Journal of Water Process Engineering
Layer-wise physicochemical and elemental distribution in an urban river water, Bangladesh: potential pollution, sources, and human health risk assessment	Kormoker, T. Islam, M.S. Siddique, M.A.B. Kumar, S. Phoungthong, K. Kabir, M.H. Iqbal, K.F. Kumar, R. Ali, M.M. Islam, A.R.M.T.	Environmental Science: Advances
Green synthesis of graphene-oxide based nanocomposites for efficient removal of methylene blue dye from wastewater	Obayomi, K.S. Lau, S.Y. Danquah, M.K. Zhang, J. Chiong, T. Meunier, L. Gray, S.R. Rahman, M.M.	Desalination
Desalination of Seawater Using Reverse Osmosis Method	Talukder, R. Proshad, P.K.	International Exchange and Innovation Conference on Engineering and Sciences
Personal protective equipment-derived pollution during Covid-19 era: A critical review of ecotoxicology impacts, intervention strategies, and future challenges	Hasan, M. Islam, A.R.M.T. Jion, M.M.M.F. Rahman, M.N. Peu, S.D. Das, A. Bari, A.B.M.M. Islam, M.S. Pal, S.C. Islam, A. Choudhury, T.R. Rakib, M.R.J. Idris, A.M. Malafaia, G.	Science of the Total Environment

Activities and Initiatives:

Talks Across the Globe: From Vision to Action – Internationalization Insights on SDGs



Dr. Mahfuza Parveen, Associate Professor in the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated as a speaker in the international event "Talks Across the Globe: From Vision to Action - Internationalization Insights on Sustainable Development Goals," hosted by Don Mariano Marcos Memorial State University in the Philippines on May 31, 2024. In her session titled "Thirst for Change: Ensuring Clean Water for Every Nation," Dr. Parveen discussed the urgent need for global access to clean water and offered actionable strategies to achieve SDG 6 (Clean Water and Sanitation). The event fostered discussions on the global challenges surrounding the

SDGs, enhancing international cooperation in addressing these critical issues.

Water Purifier Distribution for Flood-Affected Communities

The Department of Public Health at Daffodil International University (DIU) received 1,000 water purifier packets from the Department of Applied Chemistry and Chemical Engineering, University of Dhaka, to support flood-affected communities. The following day, Professor Dr. ABM Alauddin Chowdhury of DIU handed over the packets to the DIU Volunteer Service Club for distribution. This initiative highlights a strong commitment to public health and community support in times of crisis, directly contributing to SDG 6: Clean Water and Sanitation by ensuring access to clean water, vital for health and well-being, especially in disaster recovery efforts.



Water treatment:



Free pure drinking water on campus:

DIU has set up a good number of water purification devices in all the floors of all the buildings on campus to ensure availability of pure drinking water for all free of cost.



Water Pollution Reduction Policy implemented:

DIU implemented water pollution reduction policy guidelines on campus to ensure sustainable use of water.

Link: <https://sustainability4d.daffodilvarsity.edu.bd/general-guidelines-on-water-pollution-reduction>



Ensure access to affordable, reliable, sustainable and modern energy for all

SDG7:

Sustainable Development Goal 7 is one of 17 Sustainable Development Goals established by the United Nations General Assembly in 2015. It aims to "Ensure access to affordable, reliable, sustainable and modern energy for all."

DIU's Progress:

Energy efficient building

Total Energy used	15,01,000 KWH
Total Renewable Energy Produced on campus	6,208 KWH
Number of Solar projects	2
Number of Biogas plant	1
National Building code followed	Bangladesh National Building Code 2020
% of energy efficient/smart building	74%+
Carbon reduction initiatives	Yes
Implementation of Automated energy monitoring & management system	Yes
Zero emission vehicles on campus	20 e-car & 250+ bicycles
Initiative to increase renewable energy production on campus	"3 Megawatt" solar system at DIU campus has been installed and energy production started
Daylight use in classroom	Yes

Policy strategy for reducing carbon emission:

DIU has been following a policy strategy for reducing carbon emission on campus along with a net zero emission target.

<https://sustainability4d.daffodilvarsity.edu.bd/environmental-sustainability-strategy>

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-7. Below is a highlight of such contribution:

Title	Authors	Publication Source
Studies of H ₂ storage efficiency of metal-doped carbon nanotubes by optical adsorption spectra analysis	Itas, Y.S. Khandaker, M.U. Suleiman, A.B. Ndikilar, C.E. Lawal, A. Razali, R. Idowu, I.I. Danmadami, A.M.	Diamond and Related Materials

	Yamusa, A.S. Osman, H. Idris, A.M.	
A Comprehensive Review of Green Computing: Past, Present, and Future Research	Paul, S.G. Saha, A. Arefin, M.S. Bhuiyan, T. Biswas, A.A. Reza, A.W. Alotaibi, N.M. Alyami, S.A. Moni, M.A.	IEEE Access
A regional appraisal of electricity accessibility determinants: the relevance of international remittances, clean energy, income inequality, and institutional quality	Murshed, M.	Environmental Science and Pollution Research
A Policy Framework for Improving E-Waste Management in Bangladesh	Ananna, S.S. Supty, N.S. Shorna, I.J. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Kinetics of Oxygen Reduction Reaction of Polymer-Coated MWCNT-Supported Pt-Based Electrocatalysts for High-Temperature PEM Fuel Cell	Haque, M.A. Rahman, M.M. Islam, F. Sulong, A.B. Shyuan, L.K. Rosli, R.E. Chakraborty, A.K. Haider, J.	Energies
Does higher energy efficiency growth homogeneously affect carbon emission growth rate across developing Sub-Saharan African nations? The importance of utilizing clean energy	Zhou, T. Haque, A. Alam, M.M. Murshed, M. Khudoykulov, K. Haseeb, M.	Environmental science and pollution research international
Does the depth of the Financial Markets matter for establishing Green Growth? Assessing Financial sector's potency in decoupling Economic Growth and Environmental Pollution	Yuan, X. Murshed, M. Khan, S.	Evaluation Review
Economic growth and environmental pollution nexus in Bangladesh: revisiting the environmental Kuznets curve hypothesis	Islam, M. Alam, M. Ahmed, F. Al-Amin, A.Q.	International Journal of Environmental Studies
Excellent photocatalytic properties in 2D ZnO/SiC van der Waals hetero-bilayers: water-splitting H ₂ -fuel production	Islam, M.R. Hasan Khan, M.S. Hasan Mojumder, M.R. Ahmad, S.	RSC Advances
Can enhancing financial inclusivity lower climate risks by inhibiting carbon emissions? Contextual evidence from emerging economies	Murshed, M. Ahmed, R. Khudoykulov, K. Kumpamool, C. Alrwashdeh, N.N.F. Mahmood, H.	Research in International Business and Finance
Evaluating the role of renewable energy and technology innovations in lowering CO ₂ emission: a wavelet coherence approach	Mehmood, U. Tariq, S. Haq, Z. Nawaz, H. Ali, S. Murshed, M. Iqbal, M.	Environmental Science and Pollution Research
Investigation of Thermochemical Properties and Pyrolysis of Barley Waste as a Source for Renewable Energy	Reza, M.S. Taweekun, J. Afroze, S. Siddique, S.A.	Sustainability (Switzerland)

	Islam, M.S. Wang, C. Azad, A.K.	
Qualitative and Quantitative Investigation of Biochar-CuO Composite for Nickel Adsorption	Din, S.U. Murtaza Awan, J. Imran, M. Ahmad, P. Haq, S. Shakil, S. Al-Mugren, K. Alotibi, S. Alharthi, A.I. Khan, M.S. Khandaker, M.U.	ACS Omega
The potentials of Si-doped magnesium oxide nanotubes for decontamination of pollutants	Saadu Itas, Y. Danmadami, A.M. Razali, R. Khandaker, M.U.	Physica Scripta
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Sustainable and Profitable IT Infrastructure of Bangladesh Using Green IT	Ahmed, F. Basak, B. Chakraborty, S. Karmokar, T. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Modelling and Simulation of Off-Grid Hybrid Power Plant with PV, Wind & Diesel Power for Uttar Char Fassion for Latest Data	Chowdhury, S. Islam, M.R. Md. Shahabuddin, G. Safi, M. Rahman Tarafder, M.M. Fouzder, T.	2023 10th IEEE International Conference on Power Systems, ICPS 2023
Harnessing digital solutions for sustainable development: a quantile-based framework for designing an SDG framework for green transition	Saqib, N. Mahmood, H. Murshed, M. Duran, I.A. Douissa, I.B.	Environmental Science and Pollution Research
Structural, mechanical, electronic and optical properties of N-decorated single-walled silicon carbide nanotube photocatalyst for hydrogen evolution via water splitting: a DFT study	Itas, Y.S. Razali, R. Tata, S. Kolo, M. Osman, H. Idris, A.M. Khandaker, M.U.	Science and Technology of Advanced Materials
Mixed-Dimensional Engineering to Generate a Desirable 2D/3D Heterostructure Perovskite Layer to Record Stable and Efficient Carbon-Based Perovskite Solar Cells	Kumar, A. Sayyed, M.I. Idris, A.M. Khandaker, M.U. Singh, P. Abbas, H.A. Myaser Abd Alaziz, K. Sharif, H.	Energy and Fuels
Decarbonization blueprints for developing countries: The role of energy productivity, renewable energy, and financial development in environmental improvement	Yan, C. Murshed, M. Ozturk, I. Siddik, A.B. Ghardallou, W. Khudoykulov, K.	Resources Policy
Can clean energy adoption and international trade contribute to the achievement of India's 2070 carbon neutrality agenda? Evidence using quantile ARDL measures	Das, N. Murshed, M. Rej, S. Bandyopadhyay, A. Hossain, M.E. Mahmood, H. Dagar, V. Bera, P.	International Journal of Sustainable Development and World Ecology

Massilia agrisoli sp. nov., isolated from rhizospheric soil of banana	Huq, M.A. Ma, J. Srinivasan, S. Parvez, M.A.K. Rahman, M.M. Naserkheil, M. Abuhena, M. Maitra, P. Islam, F. Nam, K. Park, J.-H. Akter, S.	International Journal of Systematic and Evolutionary Microbiology
An empirical re-investigation for verifying the pollution haven hypothesis concerning the foreign direct investment-carbon intensity nexus: Contextual evidence from BRICS	Murshed, M.	Environmental Challenges
Modeling and Simulation of 4.8 kW Grid Connected Solar PV Based Water Pumping System for Sustainable Agricultural Irrigation	Halder, S. Baten, T.	2023 10th IEEE International Conference on Power Systems, ICPS 2023
Can utilising renewable and nuclear energy harness the environmental sustainability agenda of the G7 countries? The importance of undergoing clean energy transition	Murshed, M. Khan, A.M. Khan, U. Khan, M.S. Parvin, R.A.	International Journal of Ambient Energy
Potential benefits and therapeutic applications of "Panchgavya" therapy (Cowpathy) for human and animal health: Current scientific knowledge	Chandran, D. Ankitha Indu, J. Sivasabari, K. Meenakshy, S. Sreelakshmi, M. Amrithendhu, V.R. Ahamed, K. Ram, G. Mohan, D. Anamika, P. Chakraborty, S. Chopra, H. Akash, S. Amin, R. Ahmed, S.K. Dey, A. Sharma, A.K. Dhama, K.	Journal of Experimental Biology and Agricultural Sciences
Progress in plasma doping semiconductor photocatalysts for efficient pollutant remediation and hydrogen generation	Rahman, T.U. Roy, H. Fariha, A. Shoronika, A.Z. Al-Mamun, M.R. Islam, S.Z. Islam, M.S. Marwani, H.M. Islam, A. Alsukaibi, A.K.D. Rahman, M.M. Awual, M.R.	Separation and Purification Technology
DCNN Based Disease Prediction of Lychee Tree	Islam, S. Akter, S. Islam, M. Rahman, M.A.	Lecture Notes in Networks and Systems
Enabling green shared vision: linking environmental strategic focus and environmental performance through ISO 14001 and technological capabilities	Ong, T.S. Lee, A.S. Latif, B. Sroufe, R. Sharif, A. Heng Teh, B.	Environmental Science and Pollution Research

Activities and Initiatives

International Scientific Conference: Advancing Sustainable Development through Cleaner Fuels and Energy Technologies

Mr. Sheikh Muhammad Rezwan, Assistant Professor in the Department of Architecture at Daffodil International University, Bangladesh, participated as a speaker at the International Scientific Conference themed "Use of Cleaner Fuels and More Efficient Energy Technologies in EU Countries," held virtually by RUDN University, Russia. His presentation, titled "Partnership for Sustainable Development Experience in Bangladesh," highlighted efforts in sustainable development, focusing on cleaner fuels and energy technologies. The conference, part of the Jean Monnet project & RESTIR initiative, included speakers from Indonesia, Kazakhstan, and Russia, all sharing initiatives aimed at promoting energy efficiency and sustainability across various sectors.



Embedded System Research Lab's Contribution to Sustainable Development Goals at Daffodil International University



The Embedded System Research Lab at Daffodil International University is dedicated to advancing the Sustainable Development Goals (SDGs) through innovative research in climate change monitoring, climate-resilient agriculture, industry automation, and smart city initiatives. The lab leverages IoT-based sensor technologies and embedded systems to develop solutions aimed at reducing carbon emissions, enhancing energy efficiency, promoting sustainable agriculture, and driving automation in various industries. Additionally, the lab's smart city projects focus on sustainability, resource

optimization, and environmental protection. Following visits to biogas plants and research centers, the lab launched a research project to monitor carbon emissions using IoT sensors, with the goal of optimizing biogas production and reducing greenhouse gas emissions.

Funded Project on Solar Assessment of All Government Universities

The EEE Department is currently running several funded projects from organizations such as the European Climate Foundation, AA Bangladesh, and TARA Climate, focusing on the solar potential assessment of 48 government universities. As the renewable energy sector gains global momentum,

these initiatives are at the forefront of advancing sustainable energy solutions, including innovative solar technologies, energy storage systems, and policy development. The projects contribute to reducing carbon emissions, combating climate change, and enhancing energy security and resilience. By fostering collaboration between academia, industry, and government, they promote a multidisciplinary approach to sustainable energy solutions. Additionally, these projects offer valuable opportunities for students and researchers to engage in hands-on learning and contribute to real-world applications, aligning with Sustainable Development Goals 7 (Affordable and Clean Energy) and 13 (Climate Action).



Workshop on Solar Net Metering: A Pathway to Sustainable Energy

The workshop on Solar Net Metering, conducted by the EEE Department in collaboration with SREDA, explored net metering as a pathway to sustainable energy. This policy mechanism allows solar energy system owners to feed excess electricity back into the grid, earning credits that offset their electricity consumption and making solar energy more cost-effective and accessible. Participants learned how net metering enables residential, commercial, and industrial users to reduce their electricity bills and shorten the payback period for solar panel investments. When solar systems generate more electricity than needed, the surplus is exported to the grid, and users can draw power from the grid during periods of lower production using accumulated credits.



Powering the Future: Overcoming the Energy Crisis with Sustainable Solutions

The seminar titled "Powering the Future: Overcoming the Energy Crisis with Sustainable Solutions" addressed global energy challenges through innovative practices. The Dean of the Faculty of Engineering discussed the role of renewable energy sources like solar and wind in reducing reliance on fossil fuels and achieving energy security, while

emphasizing smart grid technologies for efficient management. The event included panel discussions on barriers to renewable energy adoption, innovative financing models, and public-private partnerships, fostering a collaborative environment for critical thinking. By promoting sustainable energy development and the urgent transition to renewable sources, the seminar aligns with Sustainable Development Goals 7 (Affordable and Clean Energy), 9 (Industry, Innovation, and Infrastructure), and 13 (Climate Action). It highlighted the importance of sustainable energy practices and innovations.

Pioneering Renewable Energy: DIU Launches 3 MW Solar Rooftop Power Plant under OPEX Model

Daffodil International University (DIU) has inaugurated a 3 MW solar rooftop power plant under the OPEX model, marking a significant step towards renewable energy adoption in higher education. The event was honored by the presence of Prof. Dr. Muhammed Alamgir, Chairman of the University Grants Commission of Bangladesh, and Prof. Dr. M. Lutfar Rahman, Vice Chancellor of DIU. Organized by the Department of Electrical and Electronic Engineering (EEE), the ceremony

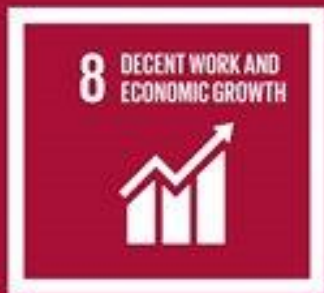


advocated for the widespread adoption of the OPEX model by universities across Bangladesh and encouraged private sector investment in renewable energy. Additionally, DIU's Solar Laboratory has been enhanced to provide nationwide training on photovoltaic (PV) system planning and maintenance, furthering DIU's commitment to sustainability and innovation. This initiative aligns with SDG 7 (Affordable and Clean Energy), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 13 (Climate Action), contributing to the transition towards sustainable energy solutions.

Inauguration of 3 MW Solar Rooftop Power Plant at DIU



Daffodil International University inaugurated a 3 MW solar rooftop power plant under the OPEX model. The event, attended by Prof. Dr. Muhammed Alamgir and Vice Chancellor Prof. Dr. M. Lutfar Rahman, was organized by the EEE department. It aimed to promote the OPEX model and encourage private sector investment, aligning with SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action).



**Promote sustained,
inclusive and sustainable
economic growth, full and
productive employment
and decent work for all**

SDG8:

Sustainable Development Goal 8 is about "decent work and economic growth" and is one of the 17 Sustainable Development Goals which were established by the United Nations General Assembly in 2015.

DIU's Contributions and Progress in 2023:

Number of Students/Groups Demonstrated and sold their products at Startup Market	60+
Number of Established Students Startups	25+
Number of Employees	1500+
Number of Staff with secured contract over 24 months	1350+
Number of Students in Business discipline	3,500+
Number of Graduates in Business discipline	550+
Publication of Academic Journal: DIU Journal of Business & Entrepreneurship	2 Issues
Complies with minimum living wage	Yes
Foreign Students Club/Association	2
Central DIU Alumni Association	1
Departmental Alumni Association	20+
Graduates' employability and job placement	80%+

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-8. Below is a highlight of such contribution:

Title	Authors	Publication Source
The Impact of Proactive Resilience Strategies on Organizational Performance: Role of Ambidextrous and Dynamic Capabilities of SMEs in Manufacturing Sector	Pertheban, T.R. Thurasamy, R. Marimuthu, A. Venkatachalam, K.R. Annamalah, S. Paraman, P. Hoo, W.C.	Sustainability (Switzerland)
A Comprehensive Review of Green Computing: Past, Present, and Future Research	Paul, S.G. Saha, A. Arefin, M.S. Bhuiyan, T. Biswas, A.A. Reza, A.W. Alotaibi, N.M. Alyami, S.A. Moni, M.A.	IEEE Access

The moderating role of market turbulence beyond the Covid-19 pandemic and Russia-Ukraine crisis on the relationship between intellectual capital and business sustainability	AlQershshi, N. Saufi, R.B.A. Ismail, N.A. Mohamad, M.R.B. Ramayah, T. Muhammad, N.M.N. Yusoff, M.N.H.B.	Technological Forecasting and Social Change
Institutional factors and efficiency performance in the global microfinance industry	Mia, M.A. Rangel, G.J. Nourani, M. Kumar, R.	Benchmarking
Promises of English and English Language Learners in Rural Bangladesh	Shamsul Hoque, M. Monjurul Islam, M. Obaidul Hamid, M.	Journal of Asia TEFL
Seribu islands in the megacities of Jakarta on the frontlines of the climate crisis	Setiawati, M.D. Chatterjee, U. Djamil, Y.S. Alifatri, L.O. Nandika, M.R. Rachman, H.A. Supriyadi, I.H. Hanifa, N.R. Muslim, A.M. Eguchi, T. Prayudha, B. Oktaviani, A. Adi, N.S. Renyaan, J. Sulha, S. Wouthuyzen, S. Pal, S.C. Islam, A.R.M.T. Alam, E. Islam, M.K.	Frontiers in Environmental Science
Does the depth of the Financial Markets matter for establishing Green Growth? Assessing Financial sector's potency in decoupling Economic Growth and Environmental Pollution	Yuan, X. Murshed, M. Khan, S.	Evaluation Review
Economic growth and environmental pollution nexus in Bangladesh: revisiting the environmental Kuznets curve hypothesis	Islam, M. Alam, M. Ahmed, F. Al-Amin, A.Q.	International Journal of Environmental Studies
Mapping out the vulnerabilities of migrant women in the informal sector: A qualitative investigation in Dhaka city	Sifullah, M.K. Sohel, M.S. Hossain Sarker, M.F. Islam, M. Ahmad, M. Rahman, M.M.	Heliyon
Relationship between greenfield investment and economic growth: Evidence from Bangladesh	Ahmed, S.F. Islam, K.M.Z. Mohsin, A.K.M. ai-jun, G. Hossain, S.F.A.	Heliyon
Unveiling Curvularia tuberculata-induced leaf anomalies in Rhododendron ferrugineum: implications in cultural-ecological conservation and harnessing microbial intervention in socio-economic advancement	Dhar, J. Hazra, A. Patra, R. Kumar, V. Subramaniyan, V. Kumarasamy, V. Mitra, A.K. Sayed, A.A. Aleya, L. El-Demerdash, F.M. Almutairi, M.H. Akash, S. Abdel-Daim, M.M. Kant, A. Dhara, B.	Frontiers in Microbiology
Can enhancing financial inclusivity lower climate risks by inhibiting carbon	Murshed, M. Ahmed, R. Khudoykulov, K.	Research in International

emissions? Contextual evidence from emerging economies	Kumpamool, C. Alrwashdeh, N.N.F. Mahmood, H.	Business and Finance
Roles of green intellectual capital facets on environmental sustainability in Oman	Gharib, M. Alam, M.S. Hawaldar, I.T. Murshed, M. Khan, U. Alvarado, R. Rehman, I.U.	Economic Research- Ekonomiska Istrazivanja
Evaluating the role of renewable energy and technology innovations in lowering CO2 emission: a wavelet coherence approach	Mehmood, U. Tariq, S. Haq, Z. Nawaz, H. Ali, S. Murshed, M. Iqbal, M.	Environmental Science and Pollution Research
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Harnessing digital solutions for sustainable development: a quantile-based framework for designing an SDG framework for green transition	Saqib, N. Mahmood, H. Murshed, M. Duran, I.A. Douissa, I.B.	Environmental Science and Pollution Research
Anthropogenic drivers induced desertification under changing climate: Issues, policy interventions, and the way forward	Pal, S.C. Chatterjee, U. Chakraborty, R. Roy, P. Chowdhuri, I. Saha, A. Towfiqul Islam, A.R.M. Alam, E. Islam, M.K.	Progress in Disaster Science
Can clean energy adoption and international trade contribute to the achievement of India's 2070 carbon neutrality agenda? Evidence using quantile ARDL measures	Das, N. Murshed, M. Rej, S. Bandyopadhyay, A. Hossain, M.E. Mahmood, H. Dagar, V. Bera, P.	International Journal of Sustainable Development and World Ecology
An empirical re-investigation for verifying the pollution haven hypothesis concerning the foreign direct investment-carbon intensity nexus: Contextual evidence from BRICS	Murshed, M.	Environmental Challenges
The Connection between Absorptive Capacity and Green Innovation: The Function of Board Capital and Environmental Regulation	Javeed, S.A. Teh, B.H. Ong, T.S. Lan, N.T.P. Muthaiyah, S. Latief, R.	International Journal of Environmental Research and Public Health
Green entrepreneurship in Saudi Arabia: shaping the landscape of the greener economy	Abdelwahed, N.A.A. Al Doghan, M.A. Saraih, U.N. Soomro, B.A.	Journal of Small Business and Enterprise Development
FinTech: Deep Learning-Based Sentiment Classification of User Reviews from Various Bangladeshi Mobile Financial Services	Al Ryan, A. Mahmud, M.S. Mahi, H.H.C. Hossen, M.S. Shimul, N.I. Noori, S.R.H.	IFIP Advances in Information and Communication Technology

A New Insight on Tourism-Entrepreneurship Nexus: The Role of Tourism Market Diversification	Rahman, S.A. Saboori, B. Taghizadeh, S.K.	Tourism Planning and Development
Causality analysis of the impacts of petroleum use, economic growth, and technological innovation on carbon emissions in Bangladesh	Chen, X. Rahaman, M.A. Murshed, M. Mahmood, H. Hossain, M.A.	Energy
Climate change in Bangladesh: Temperature and rainfall climatology of Bangladesh for 1949-2013 and its implication on rice yield	Alam, E. Hridoy, A-E.E. Tusher, S.M.S.H. Islam, A.R.M.T. Islam, M.K.	PLoS ONE
SUSTAINABLE ENTREPRENEURSHIP PRACTICES AS PREDICTOR OF MICRO ENTERPRISES PERFORMANCE IN RURAL CONTEXT: A STRUCTURAL EQUATION MODELLING APPROACH	Hazudin, S.F. Zaki, S.M. Saripin, M.S. Jabar, F.A. Ramayah, T. Adnan, N.I.M.	Journal of Sustainability Science and Management
Can utilising renewable and nuclear energy harness the environmental sustainability agenda of the G7 countries? The importance of undergoing clean energy transition	Murshed, M. Khan, A.M. Khan, U. Khan, M.S. Parvin, R.A.	International Journal of Ambient Energy
Enabling green shared vision: linking environmental strategic focus and environmental performance through ISO 14001 and technological capabilities	Ong, T.S. Lee, A.S. Latif, B. Sroufe, R. Sharif, A. Heng Teh, B.	Environmental Science and Pollution Research
Influence of Catalyst on the Yield and Quality of Bio-Oil for the Catalytic Pyrolysis of Biomass: A Comprehensive Review	Reza, M.S. Zhanar Baktybaevna, I. Afroze, S. Kuterbekov, K. Kabyshev, A. Bekmyrza, K.Z. Kubenova, M.M. Bakar, M.S.A. Azad, A.K. Roy, H. Islam, M.S.	Energies
Promoting sustainable development through strategies, environmental management accounting and environmental performance	Appannan, J.S. Mohd Said, R. Ong, T.S. Senik, R.	Business Strategy and the Environment
Transforming Supply Chains: Powering Circular Economy with Analytics, Integration and Flexibility Using Dual Theory and Deep Learning with PLS-SEM-ANN Analysis	Shafique, M.N. Rashid, A. Yeo, S.F. Adeel, U.	Sustainability (Switzerland)
Russia-Ukraine conflict sentiments and energy market returns in G7 countries: Discovering the unexplored dynamics	Balsalobre-Lorente, D. Sinha, A. Murshed, M.	Energy Economics
The role of renewable energy finance in achieving low-carbon growth: contextual evidence from leading renewable energy-investing countries	Siddik, A.B. Khan, S. Khan, U. Yong, L. Murshed, M.	Energy

Activities and Initiatives:

Enhancing Graduates' Employability: Collaboration with BDCOM Shanghai Ltd.

On September 23, 2023, the Department of Software Engineering hosted a campus recruitment event in collaboration with BDCOM Shanghai Ltd., aimed at connecting talented graduates with industry professionals. This initiative provided students with direct access to job opportunities, fostering career growth and supporting the university's mission to enhance employability. By bridging the gap between education and industry, the event contributed to SDG 4: Quality Education and SDG 17: Partnerships for the Goals, promoting academic-industry collaboration and preparing students for successful careers in the tech sector.



Joint Webinar on Employability with University of Hertfordshire



The Department of Software Engineering hosted a joint webinar on Employability in collaboration with the University of Hertfordshire, UK. This webinar aimed to bridge the gap between academic skills and industry requirements by offering students insights into global job markets and effective career development strategies. The initiative aligns with SDG 4: Quality Education, as it enhances educational outcomes by preparing students for successful careers and fostering connections between academia and industry.

Training on Organizational Behavior for DIU Employees



HRDI of DIU hosted the final session of an insightful 2-day training for DIU employees. The final session, led by Mr. Md. Rezwan Al Islam, covered important topics, including the ethics of

reciprocity, customer centricity, and time management techniques such as the Pomodoro Method and Kaizen. HRDI looks forward to organizing more sessions focused on professional growth and development.

Empowering Session on HR Professionals with Practical, Hands-On Experience

HRDI organized a dynamic session titled "HR Power Up: PGD HRM TeamFusion." The session focused on the roles and responsibilities of HR professionals through activity-based casework, competency-based questions, and real-time scenarios, providing participants with invaluable feedback to refine their interview skills.



Empowering Future Leaders: Masterclass on Career Growth and Technological Advancement



Dr. Md. Sabur Khan, Chairman of Daffodil International University (DIU), conducted a masterclass titled "Employability360 Learning to Leading: A Journey to Confident Career Growth," providing DIU students with essential insights for shaping successful careers. The session emphasized the importance of setting clear career targets and harnessing the power of technology and artificial intelligence (AI) to achieve professional growth. Dr. Khan's guidance serves as a vital resource for students, equipping them with the tools needed to thrive in a rapidly evolving job market. This initiative aligns with SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth), fostering education and skill development for sustainable career advancement.

Building Future Leaders: Symposium on Corporate Leadership with Professor Franco Gandolfi

We are delighted to reflect on the impactful symposium on "Corporate Leadership," led by Professor Franco Gandolfi, a distinguished Professor of Leadership at Georgetown University, USA, and Visiting Professor at the Faculty of Business and Entrepreneurship (FBE), DIU. Professor Gandolfi provided invaluable insights into the critical attributes necessary for success in corporate leadership, such as risk-taking, problem-solving, and resilience. The event attracted a vibrant audience of over 250



registered students and esteemed faculty members. The Dean of FBE, DIU, emphasized the crucial role of corporate leadership in driving sustained progress and development, aligning with our nation's broader sustainability goals. This initiative supports SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth), promoting leadership education and professional development for sustainable growth.

DIU and Partners Host Grand Gathering for Global Money Week 2024



Daffodil International University (DIU) and the Bangladesh Skill Development Institute, with the support of Bangladesh Bank, the Central Bank of Bangladesh, celebrated the Grand Gathering of Global Money Week 2024. The event recognized students' creative efforts in promoting financial literacy, awarding prizes for their dedication. The closing ceremony featured two insightful panel discussions, with speakers from the ICT Division, Bangladesh, UNDP

Bangladesh, JCI Bangladesh, and the Daffodil Family (ড্যাফোডিল ফ্যামিলি) sharing their expertise on financial inclusion, money management, and the importance of savings during student life. Mr. Iqbal Mohasin, Director of the Financial Inclusion Department at Bangladesh Bank, delivered a keynote address, emphasizing the crucial role of financial literacy in shaping a prosperous future. This initiative aligns with SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth), fostering financial awareness and inclusion for sustainable development.

Exploring the Blue Economy: DIU Hosts Plenary Session on Challenges and Opportunities



The Faculty of Business & Entrepreneurship at Daffodil International University (DIU) organized a Plenary Session titled Blue Economy: Challenges & Opportunities. The session addressed the challenges and opportunities within the

Blue Economy, featuring distinguished speakers from academia and government sectors from both Bangladesh and India. Experts highlighted the significance of marine-based economic development and resource utilization while ensuring the protection of ecosystems. Professor Dr. Abhijit Mitra, Director of Research at Techno India University, West Bengal, discussed the impact of

urbanization on forests. The session emphasized the role of entrepreneurship in advancing the blue economy for societal benefits, focusing on economic sustainability and resource preservation. Policymakers advocated for collaborative efforts and scientific research to foster sustainable blue economy practices in Bangladesh and India. This initiative supports SDG 14 (Life Below Water) and SDG 8 (Decent Work and Economic Growth), promoting sustainable development and resource management in marine environments.

Empowering Future Leaders: DIU's Growing Star Program-Spring 2024

The DIU Growing Star Program-Spring 2024 recently concluded, marking a successful initiative aimed at enhancing the potential and problem-solving skills of pre-university students. The program was designed to prepare students for global competition and establish DIU as a leading institution in developing future leaders. Participants were assessed on their knowledge in fundamental courses and strategies were developed to address any gaps. Chief Guest Prof. Dr. M. Kaykobad, Distinguished Professor at BRAC University and former Professor at BUET, provided valuable insights that enriched the event. This initiative aligns with SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth), fostering educational excellence and preparing students for future challenges.



Strengthening Accounting Education: DIU and ICMAB Forge Partnership with New MoU



Daffodil International University (DIU) and the Institute of Cost and Management Accountants of Bangladesh (ICMAB) have signed a Memorandum of Understanding (MoU) to enhance collaboration in the fields of accounting, audit, and taxation. This partnership provides DIU students and graduates with valuable benefits, including scholarships, waivers, professional resources, and opportunities for global collaboration,

which will boost their employability. Both institutions are dedicated to implementing and continuously reviewing the MoU's terms to ensure its effectiveness and impact in advancing education and professional development. This initiative supports SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth), focusing on enhancing educational opportunities and career prospects in accounting and finance.

DIU Students Explore Leadership and Career Development at the EMK Center

On May 27, 2024, around 50 students from the Department of English at Daffodil International University (DIU) visited the Edward M. Kennedy EMK Center in Dhaka as part of the Employability 360 course. Led by Syed Raihan-Ul-Islam, Deputy Director of International Affairs at DIU, the visit aimed to cultivate leadership skills, understand international organizational standards, and explore opportunities for studying in the USA. The students participated in sessions and toured facilities such as the MakerLab, Hollywood Studio, Education USA Library, Kennedy Hall, and Dialogue Room. This experience aligns with Sustainable Development Goal (SDG) 4 (Quality Education) by enhancing educational experiences and preparing students for global career opportunities. The visit also supports SDG 8 (Decent Work and Economic Growth) by equipping students with skills relevant to international job markets and leadership roles.



DIU Earns Fair Pay Charter Recognition



Daffodil International University (DIU) has been awarded the Fair Pay Charter, affirming its commitment to fair pay, equal wages, and transparency. This achievement aligns with the United Nations Sustainable Development Goals (SDG 8: Decent Work and Economic Growth). By adopting global standards, DIU reaffirms its dedication to fostering a fair and inclusive work environment for all.

Youthpreneurship Event at DIU

At Daffodil International University, Mr. Mamunur Rahman, Founder of Ella Pad, delivered insights at the "Youthpreneurship: Empowering the Entrepreneurs of Tomorrow" event. This initiative supports SDG 8 (Decent Work and Economic Growth) by inspiring and guiding future entrepreneurs through shared expertise and experience.



Mumbai Students and Teachers Participate in SEEP 2024 at DIU



From January 23 to 28, 2024, a team of 10 students and teachers from Mumbai's Kohinoor Business and Management Schools joined DIU's Social Entrepreneurship Exposure Program (SEEP) 2024. This initiative supports SDG 8 (Decent Work and Economic Growth) by fostering social entrepreneurship and international collaboration.

DIU Tourism Students Secure Internships in China

DIU Supports 'Glocal Teen Hero Bangladesh 2023'

Congratulations to Mr. Tamzid Rahman from DIU, winner of 'Glocal Teen Hero Bangladesh 2023 (2nd Edition).' This accolade, which recognizes youth for making a positive societal impact, aligns with SDG 8 (Decent Work and Economic Growth) by fostering leadership and social entrepreneurship. DIU is proud to be a Strategic Partner in this initiative, nurturing future leaders and innovators.



WS Startup Day Bangladesh 2023

WS Startup Day Bangladesh 2023, the country's inaugural event, was held at Daffodil Plaza, Dhaka. Over 150 students, startup founders, and entrepreneurs gathered to gain insights from leading figures in cloud computing. This event supports SDG 8 (Decent Work and Economic Growth) by fostering innovation and entrepreneurship.



BCIC Launches Entrepreneurial Support Center at DIU



The Bangladesh Small and Cottage Industries Corporation (BCIC), under the Ministry of Industries, inaugurated a service center at DIU to nurture student entrepreneurs and foster trends in small and medium industries. The center, launched by DIU Trustee Board Chairman Dr. Md. Sabur Khan and BCIC Chairman Muh. Mahbubur Rahman, aligns with SDG 8 (Decent Work and Economic Growth) by supporting entrepreneurship and industry

innovation.



Ignite Your Creative Potential with Our Illustration Workshop

Daffodil International College hosted an inspiring workshop, "Earn 6 Digits in Illustration," where students learned from successful professionals in the field. The workshop covered advanced techniques and freelancing tips, aligning with SDG 8 (Decent Work and Economic Growth) by enhancing career skills. Thanks to the active participants for making, it a success. Stay tuned for future

workshops designed to spark creativity and drive success.

Support Services provided for the local and students startups

Daffodil International University has been providing various supports for ensuring a sustainable socio-economic condition by facilitating entrepreneurship, trade and commerce. Some of those support services and initiatives are mentioned below:

Introducing a separate Academic Department of Innovation & Entrepreneurship:



Daffodil International University is considered to be the pioneer in terms of institutionalizing entrepreneurial higher education in Bangladesh by establishing a separate academic department titled: Department of Innovation & Entrepreneurship. DIU intends to produce real entrepreneurs who will be able to create more and more job opportunities in the future. They are discovering new techniques, trends, and opportunities through their role in the economy, social change, and prosperity. The university takes many steps to entrepreneurship development. More than 30 students from the Department have already established their own ventures/startup companies with the support of the Department, DIU and its other concerns.



Daffodil Startup Market:

Daffodil Startup Market, a vibrant platform showcasing innovative startups which is organized by the Department of innovation and entrepreneurship of DIU. It serves as a hub for entrepreneurs to display their products and ideas, fostering collaboration and networking within the startup ecosystem and encouraging and facilitating them to become successful entrepreneurs. More than thirty students/groups

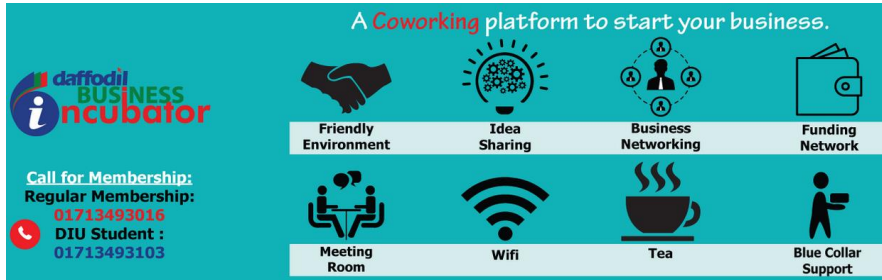
showcased and sold their products in the startup markets.

Entrepreneurial Development Fund:

Entrepreneurship Development Fund (EDF) is only intended to be used for the development of all the students of Daffodil International University. It is allocated as a loan (without Interest) for the

business development/ initiation purposes. From the Department of Innovation & Entrepreneurship, a good number of students took interest-free loans from the EDF fund to scale up their Businesses.

Daffodil Business Incubator (DBI)



Daffodil business incubator is designed to support both the students and local community youths to promote their business with support like office space & other official support services

(if they do not have their own office). They can use the DBI address for their office address and also, they can use this as their own for their business expansion.

Foreign Students Associations at DIU

There are two associations of foreigning students at Daffodil International University.

1. Somali Students Association of DIU



2. Nigerian Students Association of DIU





**Build resilient
infrastructure, promote
inclusive and sustainable
industrialization and
foster innovation**

SDG 9:

Sustainable Development Goal 9 is about "industry, innovation and infrastructure" and is one of the 17 Sustainable Development Goals adopted by the United Nations General Assembly in 2015. SDG 9 aims to build resilient infrastructure, promote sustainable industrialization and foster innovation.

DIU's Contribution and progress in 2023:

Number of academic staff	759
Number of academic staff in STEM disciplines	350+
Number of academic staff in Medicine discipline	100+
Number of academic staff in Arts & Humanities / Social sciences disciplines	150+
Existence of Patent Office	Yes
Patent Filed in DPDT, GoB	10+
Number of Researchers Received Grants from DIU	1500+
Number of Student Startups	25+
Number of Research Projects Funded by DIU	15+

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-9. Below is a highlight of such contribution:

Title	Authors	Publication Source
Nexus among blockchain visibility, supply chain integration and supply chain performance in the digital transformation era	Tan, C.L. Tei, Z. Yeo, S.F. Lai, K.-H. Kumar, A. Chung, L.	Industrial Management and Data Systems
The Impact of Proactive Resilience Strategies on Organizational Performance: Role of Ambidextrous and Dynamic Capabilities of SMEs in Manufacturing Sector	Pertheban, T.R. Thurasamy, R. Marimuthu, A. Venkatachalam, K.R. Annamalah, S. Paraman, P. Hoo, W.C.	Sustainability (Switzerland)
Successive Photocatalytic Degradation of Methylene Blue by ZnO, CuO and ZnO/CuO Synthesized from Coriandrum sativum Plant Extract via Green Synthesis Technique	Basit, R.A. Abbasi, Z. Hafeez, M. Ahmad, P. Khan, J. Khandaker, M.U. Al-Mugren, K.S. Khalid, A.	Crystals

A Comprehensive Review of Green Computing: Past, Present, and Future Research	Paul, S.G. Saha, A. Arefin, M.S. Bhuiyan, T. Biswas, A.A. Reza, A.W. Alotaibi, N.M. Alyami, S.A. Moni, M.A.	IEEE Access
Performance evaluation of high-performance self-compacting concrete with waste glass aggregate and metakaolin	Meraz, M.M. Mim, N.J. Mehedi, M.T. Noroozinejad Farsangi, E. Shrestha, R.K. Kader Arafin, S.A. Bibi, T. Hussain, M.S. Billah, M.M. Bhattacharya, B. Aftab, M.R. Paul, S.K. Paul, P. Meraz, M.M.	Journal of Building Engineering
Computer vision and image analysis for industry 4.0	Siddique, N. Arefin, M.S. Ahad, M.A.R. Dewan, M.S.S.	Computer Vision and Image Analysis for Industry 4.0
A Policy Framework for Improving E-Waste Management in Bangladesh	Ananna, S.S. Supty, N.S. Shorna, I.J. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Evaluating the role of renewable energy and technology innovations in lowering CO2 emission: a wavelet coherence approach	Mehmood, U. Tariq, S. Haq, Z. Nawaz, H. Ali, S. Murshed, M. Iqbal, M.	Environmental Science and Pollution Research
The Reality of Cyber Security in Bangladesh, Relevant Laws, Drawbacks and Challenges	Babu, K.-E.-K.	Advanced Sciences and Technologies for Security Applications
Qualitative and Quantitative Investigation of Biochar-CuO Composite for Nickel Adsorption	Din, S.U. Murtaza Awan, J. Imran, M. Ahmad, P. Haq, S. Shakil, S. Al-Mugren, K. Alotibi, S. Alharthi, A.I. Khan, M.S. Khandaker, M.U.	ACS Omega
IoT Based Smart Human Traffic Monitoring System Using Raspberry Pi	Musharaf Hussain, M.M. Rahman, M.M. Uddin, M.S. Arefin, M.S.	Lecture Notes in Networks and Systems
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Trace Gases over Land and Ocean Surfaces of China: Hotspots, Trends, and Source Contributions	Ali, M.A. Wang, Y. Bilal, M. Assiri, M.E. Islam, A.R.M.T. Malafaia, G. Huang, Z. Mhawish, A. Islam, M.N. Qiu, Z. Ahmed, R. Almazroui, M.	Earth Systems and Environment
Does the digital economy reduce air pollution in China? A perspective from industrial agglomeration	Wu, L. Wan, X. Jahanger, A. Li, M. Murshed, M. Balsalobre-Lorente, D.	Energy Reports

E-waste Management and Recycling Model for Dhaka with Collection Strategy Application: A More Effective and Sustainable Approach	Sakib, M.N. Hasan, M.M. Faiza, A. Nova, S.R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Massilia agrisoli sp. nov., isolated from rhizospheric soil of banana	Huq, M.A. Ma, J. Srinivasan, S. Parvez, M.A.K. Rahman, M.M. Naserkheil, M. Abuhena, M. Maitra, P. Islam, F. Nam, K. Park, J.-H. Akter, S.	International Journal of Systematic and Evolutionary Microbiology
Preferences and Practices of Face Mask to Halt the Spread of COVID-19: A Multi-Country Research on the New Normal	Abid, K. Ahmed, H. Bari, Y.A. Younus, M. Khambati, Z.P. Jabbar, A. Billah, A.H.M.K.B. Khura, B. Khurshid, Z. Dhufera, H.T. Goharinezhad, S.	Liaquat National Journal of Primary Care
The Connection between Absorptive Capacity and Green Innovation: The Function of Board Capital and Environmental Regulation	Javeed, S.A. Teh, B.H. Ong, T.S. Lan, N.T.P. Muthaiyah, S. Latief, R.	International Journal of Environmental Research and Public Health
A Sustainable Approach Between Satellite and Traditional Broadband Transmission Technologies Based on Green IT	Mukto, M.M. Al Mahmud, M.M. Ahmed, M.A. Haque, I. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
THE MODERATOR EFFECTS OF OWNER-MANAGER KNOWLEDGE ON THE INTENTION TO ADOPT ISLAMIC FINANCING FACILITIES IN MALAYSIA	Soha, H.M. Junoh, M.Z.M. Ahmad, T.S.T. Islam, M.A.	ISRA International Journal of Islamic Finance
Big data analytics capabilities and supply chain performance: testing a moderated mediation model using partial least squares approach	AL-Khatib, A.W. Ramayah, T.	Business Process Management Journal
Advanced Applications of Carbonaceous Materials in Sustainable Water Treatment, Energy Storage, and CO2 Capture: A Comprehensive Review	Reza, M.S. Afroze, S. Kuterbekov, K. Kabyshev, A. Zh. Bekmyrza, K. Haque, M.N. Islam, S.N. Hossain, M.A. Hassan, M. Roy, H. Islam, M.S. Pervez, M.N. Azad, A.K.	Sustainability (Switzerland)
Enabling green shared vision: linking environmental strategic focus and environmental performance through ISO 14001 and technological capabilities	Ong, T.S. Lee, A.S. Latif, B. Sroufe, R. Sharif, A. Heng Teh, B.	Environmental Science and Pollution Research

A Comprehensive Roadmap on Bangla Text-based Sentiment Analysis	Shammi, S.A. Das, S. Chakraborty, N.R. Banshal, S.K. Nath, N.	ACM Transactions on Asian and Low-Resource Language Information Processing
Promoting sustainable development through strategies, environmental management accounting and environmental performance	Appannan, J.S. Mohd Said, R. Ong, T.S. Senik, R.	Business Strategy and the Environment
Transforming Supply Chains: Powering Circular Economy with Analytics, Integration and Flexibility Using Dual Theory and Deep Learning with PLS-SEM-ANN Analysis	Shafique, M.N. Rashid, A. Yeo, S.F. Adeel, U.	Sustainability (Switzerland)
Green Cloud Computing: A Sustainable Energy-Efficiency Approach for Business Rapidity and the Environment	Bristy, S.S. Azam, T. Islam, M.M. Rahman, R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Innovation and the Sustainable Competitive Advantage of Young Firms: A Strategy Implementation Approach	Thi, U.N. Van, M.H. Mahmud, I. Thuy, L.V.T.	Sustainability (Switzerland)

Activities and Initiatives:

Establishment of a Dedicated Patent Office

DIU researchers already have some granted patents and others have filed applications for patents for their innovative ideas and inventions, securing intellectual property rights. These patents demonstrate the university's commitment to promoting technological advancements and fostering an environment of innovation. DIU has also recently established a separate Patent Office for overseeing the IPRs issues.



Aloe Vera Healthy Drink (Aloe vera, Beetroot, Carrot (Patent Reg)



Beetroot Flakes



DIU's Annual Research Award Ceremony 2024 Encouraging Innovation

Daffodil International University (DIU) recently held the Research Award Giving Ceremony 2024, honoring significant research achievements from the past year. The ceremony celebrated 1,141 Scopus-indexed publications from 2023, highlighting the impactful contributions of faculty, students, and alumni in advancing knowledge and addressing societal challenges. Awards were presented to various departments for excellence in quality journal publications, industry collaboration, and student engagement in research. This event aligns with SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure), promoting academic excellence and fostering research-driven solutions for societal progress.



International Research Grant: Collaboration with Texas A&M University's



DIU has a collaboration with the Medical Physiology department at the School of Medicine, Texas A&M University, USA. DIU organized a seminar on "International Grant Application," featuring Prof. Dr. M. Nasir Uddin, Professor of Medical Physiology at Texas A&M University and Visiting Professor at the Department of Public Health, DIU, as the keynote speaker. This collaboration supports SDG 3 (Good Health and Well-being) by enhancing research capabilities in medical physiology and public health. It also aligns with SDG 9 by providing support related to international grant applications, which can facilitate further research and academic development.

Industry Visits: Bridging Academia and Real Estate Practice

The Department of Real Estate regularly organizes industry visits to various real estate companies, including Rupayan City Uttara, Oasis Ispahani Colony of ABC Real Estate, DBBL Properties Ltd., and Dwell Holdings Ltd., as well as related industries like Pa-Wang Ceramic Industry Ltd. These visits enhance the linkage between industry and



academia, providing students with valuable practical knowledge and experience. This initiative supports Sustainable Development Goal 4 (Quality Education) by creating opportunities for hands-on learning and ensuring a higher quality of education.

Quality Education through Data Science Bootcamp



On May 18, 2024, we conducted a Data Science bootcamp in collaboration with the Data Science Society, a2i, and multiple industry partners. This initiative aimed to equip participants with practical data science skills while fostering collaboration between academia and industry. By addressing real-world challenges with data-driven solutions, the bootcamp significantly contributes to SDG 4: Quality Education. It emphasizes the importance of quality learning

experiences and prepares participants for the evolving demands of the job market, thereby promoting lifelong learning opportunities for all.

Fostering Multidisciplinary Collaboration: Highlights from the 1st DIU Multidisciplinary Conference



The inaugural DIU Multidisciplinary Conference, organized by the Department of General Educational Development (GED) at Daffodil International University, successfully promoted collaboration and knowledge-sharing across various fields. Researchers from diverse disciplines presented insightful posters, fostering a rich exchange of ideas and aligning with SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals). The event showcased DIU's commitment to advancing education, research, and sustainable development

through multidisciplinary synergy.

Russell's "TYLO" Achieves Revenue Milestone and Expands with Venture Capital

Russell's business "TYLO," from the Department of Innovation and Entrepreneurship, is generating 10–15 lakh BDT monthly and employs 23 people. Known for plus-size fashion solutions, TYLO recently secured Rs 40 lakh in venture capital, boosting its growth. This success aligns with SDG 8 (Decent Work and Economic Growth) by supporting inclusive entrepreneurship and economic expansion.



Tamsa Chakma Grows F-Commerce Venture with Support from DIU



Tamsa Chakma, a student from the Department of Innovation and Entrepreneurship, launched her f-commerce business on Facebook, now generating Rs 7-8 lakh monthly. With funding from DIU, she has expanded to her own outlet while continuing her studies. This achievement supports SDG 8 (Decent Work and Economic Growth) by fostering youth entrepreneurship and economic development.

Tanveer's Journey: Freelancer to Entrepreneur

Tanveer Suraj, a student from the Department of Innovation and Entrepreneurship, has transformed from a freelancer into an entrepreneur at just 21, earning TK 5 lakhs per month. Supported by the department, Tanveer's success underscores SDG 8 (Decent Work and Economic Growth) by promoting entrepreneurship and job creation.



DIU Student Mehedi Shoron Recognized on Forbes Under 30

Mehedi Shoron, a student from the Department of Innovation & Entrepreneurship at DIU, has been honored on the Forbes Under 30 list. This recognition highlights his contributions to innovation and entrepreneurship, aligning with SDG 8 (Decent Work and Economic Growth) by inspiring youth entrepreneurship and economic development.

Startup Market 2024 Showcases Student Innovation

The "Startup Market," organized by DIU's Office of the Director of Students' Affairs, took place from March 27-28, 2024, at Daffodil Smart City. This event celebrated Eid-ul-Fitr by highlighting student entrepreneurship through 60+ stalls featuring diverse startups. The market promoted creativity, entrepreneurship, and student collaboration, aligning with SDG by fostering innovative ventures and providing a platform for emerging entrepreneurs.



GEN Global and GEN Bangladesh Forge Partnership to Highlight Bangladesh as Innovation Hub

GEN Global and GEN Bangladesh have signed a partnership to position Bangladesh as a global hub for innovation and entrepreneurship. The MoU was signed by Dr. Md. Sabur Khan, Managing Director of GEN

Bangladesh; Mr. Jonathan Ortmans, President of GEN Global; and Mr. K M Hasan Ripon, National Host, EWC Bangladesh. This collaboration supports SDG 8 (Decent Work and Economic Growth)

and SDG 9 (Industry, Innovation, and Infrastructure) by promoting entrepreneurship and innovative solutions.

BVCL Supports Startups and Partners with DIU for Innovation

Bangladesh Venture Capital Ltd has invested BDT 25 million in Chaldal and Sokrio Technologies Ltd to drive growth and innovation. In a bid to enhance the startup ecosystem, BVCL will also collaborate with Daffodil University's Department of Innovation & Entrepreneurship for co-investment and entrepreneurial initiatives. This partnership aligns with SDG 9 by supporting innovation and fostering sustainable economic development.



DIU Students' outstanding performance in the NASA Space Apps Challenge Bangladesh 2024



The teams from DIU made outstanding performance in the NASA Space Apps Challenge Bangladesh 2024. Multiple teams have secured top spots across different regions, including champions from Cumilla, Rajshahi, Mymensingh, and Barishal. The faculty mentors, Mr. Md. Shohel Arman and Mr. Md. Khaled Sohel guided the teams to success. DIU students continue to push boundaries and showcase DIU's innovation and teamwork.

Hosted 4th International Robo Tech Olympiad 2024



4th International Robo Tech Olympiad 2024 was hosted by Daffodil International

University with 134 teams from 55 institutions showcasing their talents in Robo Soccer, Project Exhibition, Line Following Robot Competition, Idea Presentation, Quiz Competition, and Drone Challenge. The event aimed to foster creativity and innovation, with 3 Lakhs BDT awarded to winners. Renowned scientist Dr. Md. Mubarak Ahmad Khan attended, inspiring young minds. The

event promotes problem-solving and technology-driven solutions for a brighter future in Bangladesh.

MoU Signing with SAU FabLab: Advancing IoT Innovation through Strategic Collaboration

Daffodil International University has signed a Memorandum of Understanding (MoU) with SAU FabLab to foster innovation in the Internet of Things (IoT) by collaborating with industry partners. The primary objective of this partnership is to develop and deploy scalable IoT solutions that tackle real-world challenges, enhancing connectivity, automation, and data-driven decision-making across multiple sectors. This collaboration aims to seamlessly integrate IoT technologies into industry practices to improve operational efficiency and drive innovation.



Industry Visit on Demonstration of Question Answering System & Introduction to NLP & ML Research Lab



The NLP & ML Research Lab at Daffodil International University is committed to advancing natural language processing (NLP) research through collaboration with industry partners. The lab's objective is to develop innovative solutions for real-world challenges in language understanding, sentiment analysis, and automated communication systems. By bridging the gap between academic research and industry needs, the lab aims to foster cutting-edge NLP technologies that enhance efficiency across various sectors. Following an industry visit to Apurba Industries Ltd., the lab-initiated projects involving student engagement as research assistants (RAs) and the development of AI tools.

Research Collaboration with Titas Gas Limited

The Department of Software Engineering of DIU collaborated with Titas Gas Limited to conduct a Customer Satisfaction Survey aimed at gathering insights to enhance service quality. This research aligns with SDG 9: Industry, Innovation, and Infrastructure by promoting the development of resilient infrastructure and fostering innovation within the industry. By identifying areas for



improvement based on customer feedback, the survey contributes to optimizing service delivery, ultimately supporting sustainable industrial practices and enhancing customer satisfaction in the energy sector.

Strengthening Global Research Collaboration for Sustainable Development: DIU and UiTM Partnership

The Faculty of Business and Entrepreneurship (FBE) at Daffodil International University (DIU) has initiated a pivotal research collaboration with Universiti Teknologi Mara (UiTM), Malaysia. This partnership, underscored by the visit of delegates led by Dr. Nor Balkish Zakaria and Dr. Muhammad Nazmul Hoque, aligns with several Sustainable Development Goals (SDGs). The collaboration focuses on advancing six research projects, fostering academic exchange, and enhancing research quality through joint journal reviews and potential supervision of UiTM's postgraduate students by FBE faculty. Chaired by Professor Dr. S.M. Mahbub Ul Haque Majumder, the discussions emphasized the importance of expanding future research opportunities, engaging both academic and non-academic staff, and ensuring a high level of collaborative research. This initiative integrates with SDG 4 (Quality Education), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 17 (Partnerships for the Goals).



Showcasing Innovation: DIU Highlights Student Projects at the 29th US Trade Show 2024

Mr. Salman Fazlur Rahman, Private Industry and Investment Adviser to the Honorable Prime Minister of Bangladesh and Member of Parliament, attended the 29th US Trade Show 2024 at the InterContinental Dhaka. During his visit to the Daffodil Pavilion, he expressed his appreciation for the innovative projects presented by students from Daffodil International University (DIU) and Daffodil Polytechnic Institute (DPI). Mr. Joseph Giblin, Chief of the Economics Unit at the US Embassy in Dhaka, also visited the pavilion and commended the creativity and ingenuity of DIU and DPI students. The exhibition featured notable projects, including Bangladesh's first locally manufactured laptop by DCL. Additionally, DIU and other entities within the Daffodil Education Network, along with the broader Daffodil Family (ড্যাফোডিল ফ্যামিলি), offered special deals and services to visitors at the trade show. This event aligns with SDG 9 (Industry, Innovation, and Infrastructure) and SDG 8 (Decent Work and Economic Growth), showcasing local innovation and fostering economic opportunities.

Team Diamonds from DIU to Represent Bangladesh at NASA

Team Diamonds from the Department of Software Engineering at Daffodil International University (DIU) represented Bangladesh at NASA from June 4 to 6, 2024. Their visit includes a reception at NASA Headquarters in Washington, D.C. a presentation, a tour of a Maryland launch facility on June 6, and an exploration of the NASA Space Museum.



Launch of DIU Research and Higher Study Society (DIURHS)



Daffodil International University launched the Daffodil International University Research and Higher Study Society (DIURHS) to foster a dynamic research culture. The initiative supports SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure) by enhancing student involvement, promoting high-quality research, and positioning DIU as a research leader.

Bangladesh's First Multimodal AI Platform: 'Crito'

Arifuzzaman Raihan, a final-year student from DIU's Computing and Information Systems Department, and his team have developed 'Crito,' Bangladesh's first multimodal AI platform. This innovation aligns with SDG 9 (Industry, Innovation, and Infrastructure) by advancing technology and fostering a culture of innovation in AI.





Reduce inequality within and among countries

SDG10:

Sustainable Development Goal 10 is about reduced inequality and is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The full title is: "Reduce inequality within and among countries". The Goal has ten targets to be achieved by 2030.

Progress and Achievements in 2023:

Physically Challenged students (%)	1%
Physically Challenged Staff (%)	1%
Proportion of first-generation students	90%+
Proportion of foreign students from LDCs/developing countries	80%+
Disability office with required support services	Yes
Maternity and Paternity Leave Facility	Yes
Mother's Room (Breastfeeding)	Yes
Separate Female Prayer Room	Yes
Implementation of Non-discrimination policy	Yes
Number of students got admission from underrepresented groups	450+
Set up of a diversity and equality committee/office	Office of the Proctor of DIU Disciplinary committee of DIU Complaint Committee of DIU
Mentoring and counseling received by students from underrepresented groups	100%
Disability support services ensured	<ul style="list-style-type: none"> - Ramp in stairs - Wheelchair service - Personal assistance service for physically impaired persons - Transport facility - Financial waiver facility - Accommodation facility
Insurance Scheme	Implemented for students, guardians, faculty and Employees
Childcare Facility	Yes

Situation	Number of complaints	Resolved
Students experiencing bullying	12	12
Students experiencing corporal punishment	14	14
Students experiencing harassment, ragging	3	3

Students' violence (Campus, Hostel, etc.)	36	36
Students experiencing sexual discrimination and abuse	0	0

In Bangladesh, female students are underrepresented in STEM areas. DIU has made substantial progress in attracting more female students to get admitted into STEM areas in 2022 than the previous year. Here is the summary:

Female students in STEM areas in 2023	29%
Overall increase of Female students in STEM areas	2%
Percentage of Female Students in 2023	39%+
Increase of Female Students	+0.5%

Policies implemented at DIU:

Following and implemented the:

1. [Anti-Harassment and Non-Discriminatory Policy](#)
2. [Grievance Policy and Procedure](#)
3. [Maternity Leave Policy](#)
4. [Policy for Managing Women's Career Counseling Services](#)
5. [Equality, Diversity, and Inclusion Policy](#)

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-10. Below is a highlight of such contribution:

Title	Authors	Publication Source
A regional appraisal of electricity accessibility determinants: the relevance of international remittances, clean energy, income inequality, and institutional quality	Murshed, M.	Environmental Science and Pollution Research
Does higher energy efficiency growth homogeneously affect carbon emission growth rate across developing Sub-Saharan	Zhou, T. Haque, A. Alam, M.M. Murshed, M. Khudoykulov, K. Haseeb, M.	Environmental science and pollution research international

African nations? The importance of utilizing clean energy		
Economic growth and environmental pollution nexus in Bangladesh: revisiting the environmental Kuznets curve hypothesis	Islam, M. Alam, M. Ahmed, F. Al-Amin, A.Q.	International Journal of Environmental Studies
Relationship between greenfield investment and economic growth: Evidence from Bangladesh	Ahmed, S.F. Islam, K.M.Z. Mohsin, A.K.M. ai-jun, G. Hossain, S.F.A.	Heliyon
Heterogeneous effects of energy productivity improvement on consumption-based carbon footprints in developed and developing countries: The relevance of improving institutional quality	Yang, J. Huang, H. Sanyal, S. Khan, S. Alam, M.M. Murshed, M.	Gondwana Research
Can enhancing financial inclusivity lower climate risks by inhibiting carbon emissions? Contextual evidence from emerging economies	Murshed, M. Ahmed, R. Khudoykulov, K. Kumpamool, C. Alrwashdeh, N.N.F. Mahmood, H.	Research in International Business and Finance
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Clientelism and Subservience in Organizational Behaviour and Professional Practice	Nekmahmud, M. Patwary, M.A.	Global Business Review
Decarbonization blueprints for developing countries: The role of energy productivity, renewable energy, and financial development in environmental improvement	Yan, C. Murshed, M. Ozturk, I. Siddik, A.B. Ghardallou, W. Khudoykulov, K.	Resources Policy
Can clean energy adoption and international trade contribute to the achievement of India's 2070 carbon neutrality agenda? Evidence using quantile ARDL measures	Das, N. Murshed, M. Rej, S. Bandyopadhyay, A. Hossain, M.E. Mahmood, H. Dagar, V. Bera, P.	International Journal of Sustainable Development and World Ecology
An empirical re-investigation for verifying the pollution haven hypothesis concerning the foreign direct investment-carbon	Murshed, M.	Environmental Challenges

intensity nexus: Contextual evidence from BRICS		
Exploring barriers to accessing healthcare services for older indigenous people in the Chittagong Hill Tract, Bangladesh	Hossen, M.S. Sohel, M.S. Horaira, G.A. Laskor, M.A.H. Sumi, A.B.A. Chowdhury, S. Aktar, S. Sifullah, M.K. Sarker, M.F.H.	AIMS Public Health
Climate Change and Humanitarian Responses: A Proposal of Education for Health Hazards Preparedness	Cardoso, J.C. Parveen, M. Fonseca, M.S.A. Grzelak, L.	Climate Change Management
Can financial globalization and good governance help turning emerging economies carbon neutral? Evidence from members of the BRICS-T	Hashmi, N.I. Alam, N. Jahanger, A. Yasin, I. Murshed, M. Khudoykulov, K.	Environmental Science and Pollution Research
Studies on the prevalence of HIV/AIDS in Bangladesh including other developing countries	Mominur Rahman, M. Islam, F. Saidur Rahaman, M. Sultana, N.A. Fahim, N.F. Ahmed, M.	Advances in Traditional Medicine
Can financing technological development programs mitigate mineral resource consumption-related environmental problems faced by Sub-Saharan African nations?	Gao, Y. Murshed, M. Ozturk, I. Saqib, N. Siddik, A.B. Alam, M.M.	Resources Policy
Rural-urban disparities in nutritional status among ever-married women in Bangladesh: A Blinder-Oaxaca decomposition approach	Hossain, M.I. Habib, M.J. Zinia, F.A. Rahman, A. Methun, M.I.H. Haq, I.	PLoS ONE
The burden of chronic diseases, disease-stratified exploration and gender-differentiated healthcare utilisation among patients in Bangladesh	Mahumud, R.A. Gow, J. Mosharaf, M.P. Kundu, S. Rahman, M.A. Dukhi, N. Shahajalal, M. Mistry, S.K. Alam, K.	PLoS ONE
Determinants of financial inclusion in South Asia: The moderating and mediating roles of internal conflict settlement	Murshed, M. Ahmed, R. Al-Tal, R.M. Kumpamool, C. Vetchagool, W. Avarado, R.	Research in International Business and Finance

Exploring Mental Health Status and Psychosocial Support among Rohingya Refugees in Bangladesh: A Qualitative Study	Ullah, A.N.Z. Pratley, P. Shariful Islam, M. Islam, K. Roy, T.	Mental Illness
Can energy productivity gains harness the carbon dioxide-inhibiting agenda of the Next 11 countries? Implications for achieving sustainable development	Murshed, M. Khan, U. Khan, A.M. Ozturk, I.	Sustainable Development
Rethinking energy poverty reduction through improving electricity accessibility: A regional analysis on selected African nations	Murshed, M. Ozturk, I.	Energy
Breaking the Cycle of Injustice: Investigating Restorative Justice Solutions for Street Begging Children in Dhaka City, Bangladesh through a Comprehensive Socio-Legal Analysis	Haque, S.M.S. Chakrabarty, S.P.	Indian Journal of Law and Justice
The Biggest Global Issues Facing Humankind: A Meta-Analysis of Poverty Alleviation and Poverty Eradication	Islam, M.A. Thottoli, M.M. Abdullah, A.B.M. Ahmad, T.S.T. Rahman, S.	Journal of Poverty
Application and Criminalization of the Artificial Intelligence in Business: Recommendation to Counter the Regulatory Challenges	Mahmud, A.	Journal of Applied Security Research
The relevance of reducing income inequality for eliminating urban-rural divide in clean cooking fuel accessibility: Evidence from Latin America and the Caribbean	Murshed, M.	Energy
Efficacies of technological progress and renewable energy transition in amplifying national electrification rates: contextual evidence from developing countries	Murshed, M.	Utilities Policy

Activities and Initiatives:

DIU and University of Dhaka Collaborate on Health App for *Indigenous Communities*



Under the supervision of Esraq Humayun Eisty, students from the Department of Software Engineering at Daffodil International University (DIU) presented "Hiye," a health app designed for indigenous communities. The project, a collaboration between the Department of MIS at the University of Dhaka and DIU's Department of Software Engineering, was funded by the ICT Ministry of Bangladesh. The app was delivered to Prof. Dr. Md Rakibul Hoque of the University of Dhaka, marking a significant step towards improving health services for underserved populations. This initiative supports SDG 3 (Good Health and Well-being) and SDG 10 (Reduced Inequalities), ensuring the healthcare accessibility for underrepresented indigenous group.

Free Healthcare Initiative for underprivileged individuals by Daffodil Bandhushobha

As part of Prothom Alo's 25th anniversary celebrations, Daffodil Bandhushobha (Student club) provided free healthcare to over 200 underprivileged individuals in Ashulia, Dhaka. This initiative supports SDG 3 (Good Health and Well-Being) and SDG 10 by enhancing access to medical services for marginalized underprivileged communities.










STUDENT'S WELL BEING INITIATIVE FOR REDUCING INEQUALITIES



Daffodil International University & Prime Islami Life Insurance Limited supported 40 students facing financial hardship due to a guardian's passing. Each student received 3 lakh TK from a pre-existing insurance plan covering natural death, accidents, and disability. The university expressed its commitment to student well-being through this initiative.

Office of the Proctor and Proctorial Team Ensuring Reduced Inequalities in Campus

Office Of the Proctor	Proctorial Body:
Home	 <p>Dr. Shaikh Muhammad Allayear Proctor Email: proctor@daffodilvarsity.edu.bd</p>
Proctorial Body	 <p>Dr. Sharifa Sultana Deputy Proctor Email: sharifa@daffodilvarsity.edu.bd</p>
Procedure	 <p>Mr. Mohammad Badruzzaman Deputy Proctor Email: badruzzaman.law@diu.edu.bd</p>
Complaint Form	 <p>Mr. Md. Anhar Sharif Mollah Assistant Proctor Email: anhar.bbaj@diu.edu.bd</p>
News & Events	 <p>Mr. Mohammad Abu Sufian Assistant Proctor Email: sufian.law@diu.edu.bd</p>
Useful Contacts	 <p>Mr. Kazi Md. Diljeb Kabir Assistant Proctor Email: diljeb@daffodilvarsity.edu.bd</p>
Code of Conduct	 <p>Md. Shariful Islam Assistant Administrative Officer Email: proctoroffice@daffodilvarsity.edu.bd</p>

Office of the Proctor: <https://daffodilvarsity.edu.bd/proctor-office>

Community Digital Storytelling Festival: Empowering Marginalized Voices and Reducing Inequalities

The Community Digital Storytelling Festival (CDSTF) supports SDG 10: Reduced Inequalities by amplifying marginalized voices and influencing policy development. Through digital storytelling, the festival highlights systemic inequalities and promotes social inclusion. By providing a platform for underrepresented communities, it helps shape more inclusive policies. CDSTF also builds digital literacy, fosters community engagement, and advocates for social justice, ensuring that the voices of marginalized groups are heard and considered in policy-making. This initiative encourages collaboration and understanding, reducing inequalities at both local and national levels.



Partnership for Hepatitis Prevention: DIU and National Liver Foundation Collaborate on the NOhep Village Initiative

The Department of Public Health at Daffodil International University (DIU) has partnered with the National Liver

Foundation of Bangladesh (NLFB) to collaborate on the NOHep Village initiative. This collaboration aims to raise awareness, promote liver health, and prevent hepatitis in communities across Bangladesh. This collaboration also supports SDG 10 (Reduced Inequalities) by working to improve health equity across communities, particularly by addressing and preventing hepatitis in underserved areas, which can reduce health disparities.

Art of Giving Program 2024 at DIU: Working for the Underprivileged

The Art of Giving Program 2024 at DIU, led by Dr. Md. Sabur Khan, celebrated its success on June 17th with events across seven locations. Embracing the values of the Art of Giving Community and KIIT & KISS India, the program served lunch to 1000 people, highlighting our commitment to SDG 10 (Reduced Inequalities) and SDG 17 (Partnerships for the Goals). Thanks to all who helped foster a culture of kindness and community service at DIU!



DIU Partners for Elderly Welfare and Social Value Preservation



Daffodil International University, Daffodil Family, and the Bangladesh Senior Citizen Welfare Society have signed an MOU to address the decline in social values and support the elderly. This partnership aims to alleviate the suffering of the elderly and foster an elderly-friendly society, aligning with SDG 10 (Reduced Inequalities) and SDG 11 (Sustainable Cities and Communities). Engr. Md. Fazlur Haque and Dr. Hamidul Haque Khan represented their respective organizations in this significant CSR initiative.

IVLP: Hip Hop & Civic Engagement 2024: First Female Rapper from Bangladesh

Israt Jahan Rabeya (Tuku), a student from the Department of Journalism, Media and Communication, DIU, represented Bangladesh in the "IVLP: Hip Hop and Civic Engagement 2024" in the U.S. from April 13-30. As the sole Bangladeshi and the first female rapper in the program, she was one of 22 artists selected from 140 globally. This participation highlights SDG 10 (Reduced Inequalities) by promoting cultural diversity and international exchange.



DIU Celebrates International Women's Day to ensure reduced inequality in campus

Daffodil International University celebrated International Women's Day with a vibrant rally, cake-cutting, and an insightful session on women's empowerment. The event highlighted the achievements of women globally and promoted gender equality, aligning with SDG 5 (Gender Equality) and SDG 10 (Reduced Inequalities).



Winter Blankets Distributed to Underprivileged by DIU



Under the "Daffodil Prothom Alo Bondhushava" initiative, DIU distributed winter blankets to over 200 underprivileged individuals in Ashulia, Savar. This effort aims to address basic needs and support SDG 1 (No Poverty) and SDG 10 (Reduced Inequality) by providing warmth and relief during cold weather.



**Make cities and
human settlements
inclusive, safe,
resilient and
sustainable**

SDG 11:

Sustainable Development Goal 11, titled "sustainable cities and communities", is one of 17 Sustainable Development Goals established by the United Nations General Assembly in 2015. The official mission of SDG 11 is to "Make cities inclusive, safe, resilient and sustainable".

DIU's Contribution and progress in 2023:

Number of public accesses to DIU central library: 500+
Number of public accesses to DIU green campus: 1,100+
Contribution to Arts and heritage (public performances in number): 30+
Bicycles, electric cars, shuttle buses for ensuring sustainable commuting
DIU allows remote working/working from home since 2020. It has an implemented policy on "Work from home"
Around 5,000+ students (Male & Female) got accommodation in campus
Around 220 staff got accommodation in campus
DIU follows its pedestrian policy in campus and has necessary arrangements for pedestrian movement in campus
DIU bought and renovated and extended an existing building (brownfield sites) for transforming into Engineering complex with all engineering labs.
Subsidized Transportation availed by 10000+ students and 1000+ employees
DIU Donated 1.8 million BDT to Flood Affected People of Bangladesh in 2024

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-11. Below is a highlight of such contribution:

Title	Authors	Scopus Source title
Computer vision and image analysis for industry 4.0	Siddique, N. Arefin, M.S. Ahad, M.A.R. Dewan, M.S.S.	Computer Vision and Image Analysis for Industry 4.0
Seribu islands in the megacities of Jakarta on the frontlines of the climate crisis	Setiawati, M.D, et. al	Frontiers in Environmental Science
Using fuzzy and machine learning iterative optimized models to generate the flood susceptibility maps: case study of Prahova River basin, Romania	Costache, R. Abdo, H.G. Pratap Mishra, A. Pal, S.C. Islam, A.R.M.T. Pande, C.B. Almohamad, H. Abdullah Al Dughairi, A. Albanai, J.A.	Geomatics, Natural Hazards and Risk
Optimal maintenance for a waste-to-energy plant using DEMATEL: a case study	Igodo, A. Shamsuzzoha, A. Ndzibah, E. Shamsuzzaman, M.	Clean Technologies and Environmental Policy

Analysis of Water Quality of Hatirjheel Lake, Dhaka, Bangladesh	Kamal Pasha, A.B.M. Mustafa, S.O. Mahmudur Rahman, S.M. Abdullah, M. Chowdhury, M.A.H. Parveen, M.	Nature Environment and Pollution Technology
Can enhancing financial inclusivity lower climate risks by inhibiting carbon emissions? Contextual evidence from emerging economies	Murshed, M. Ahmed, R. Khudoykulov, K. Kumpamool, C. Alrwashdeh, N.N.F. Mahmood, H.	Research in International Business and Finance
Occurrence and characterization of β -lactamase-producing bacteria in biomedical wastewater and in silico enhancement of antibiotic efficacy	Mannan, S.J. Akash, S. Jahin, S.A. Saqif, A.T. Begum, K. Yasmin, M. Ahsan, C.R. Sitotaw, B. Dawoud, T.M. Nafidi, H.-A. Bourhia, M.	Frontiers in Microbiology
Application of optimal subset regression and stacking hybrid models to estimate COVID-19 cases in Dhaka, Bangladesh	Islam, A.R.M.T. Elbeltagi, A. Mallick, J. Fattah, M.A. Roy, M.C. Pal, S.C. Shahjaman, M. Patwary, M.A.	Theoretical and Applied Climatology
Spatio-temporal assessment of water quality of a tropical decaying river in India for drinking purposes and human health risk characterization	Hoque, M.M. Islam, A. Islam, A.R.M.T. Das, B.C. Pal, S.C. Arabameri, A. Khan, R.	Environmental Science and Pollution Research
Does the digital economy reduce air pollution in China? A perspective from industrial agglomeration	Wu, L. Wan, X. Jahanger, A. Li, M. Murshed, M. Balsalobre-Lorente, D.	Energy Reports
Negative Effects of the Urban River Pollution on the Environment and Human Health in Bangladesh	Babu, K.-E.-K. Riaduzzaman, M. Akter, T. Akther, S.	Nature Environment and Pollution Technology
E-waste Management and Recycling Model for Dhaka with Collection Strategy Application: A More Effective and Sustainable Approach	Sakib, M.N. Hasan, M.M. Faiza, A. Nova, S.R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Impact of River Water Quality on Public Health in Perspective of Asian Rivers: A Case Study of Buriganga River, Bangladesh	Pasha, A.B.M.K. Nur, M.S. Mozumder, S. Parveen, M.	Journal of Environmental and Earth Sciences
Designing a Sustainable E-Waste Management Framework for Bangladesh	Ahsan, M. Yousuf, M. Rahman, M.S. Proma, F.I. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Advanced Applications of Carbonaceous Materials in Sustainable Water Treatment, Energy Storage, and CO ₂ Capture: A Comprehensive Review	Reza, M.S. Afroze, S. Kuterbekov, K. Kabyshev, A. Zh. Bekmyrza, K. Haque, M.N. Islam, S.N. Hossain, M.A.	Sustainability (Switzerland)

	Hassan, M. Roy, H. Islam, M.S. Pervez, M.N. Azad, A.K.	
Research trends on natural disasters in the context of India: A bibliometric analysis	Hossain, B. Sarker, M.N.I. Shi, G. Sohel, M.S.	Disaster, Displacement and Resilient Livelihoods: Perspectives from South Asia
Layer-wise physicochemical and elemental distribution in an urban river water, Bangladesh: potential pollution, sources, and human health risk assessment	Kormoker, T. Islam, M.S. Siddique, M.A.B. Kumar, S. Phoungthong, K. Kabir, M.H. Iqbal, K.F. Kumar, R. Ali, M.M. Islam, A.R.M.T.	Environmental Science: Advances
Can financial globalization and good governance help turning emerging economies carbon neutral? Evidence from members of the BRICS-T	Hashmi, N.I. Alam, N. Jahanger, A. Yasin, I. Murshed, M. Khudoykulov, K.	Environmental Science and Pollution Research
The Advancement in Membrane Bioreactor (MBR) Technology toward Sustainable Industrial Wastewater Management	Rahman, T.U. Roy, H. Islam, M.R. Tahmid, M. Fariha, A. Mazumder, A. Tasnim, N. Pervez, M.N. Cai, Y. Naddeo, V. Islam, M.S.	Membranes
Short duration traffic flow prediction using kalman filtering	Momin, K.A. Barua, S. Jamil, M.S. Hamim, O.F.	AIP Conference Proceedings
Household vulnerability and resilience to natural disasters in Pakistan: A systematic literature review	Hossain, B. Sarker, M.N.I. Shi, G. Sohel, M.S.	Disaster, Displacement and Resilient Livelihoods: Perspectives from South Asia
Time Series Analysis and Forecasting of Air Quality Index of Dhaka City of Bangladesh	Sakib, S.R. Sara, K.N. Hossain Rasel, M.T. Asif, M.M.I. Nahid, M.A.H. Rahman, M.S. Mridha, M.F. Islam, A.	2023 IEEE World AI IoT Congress, AllIoT 2023
Can financing technological development programs mitigate mineral resource consumption-related environmental problems faced by Sub-Saharan African nations?	Gao, Y. Murshed, M. Ozturk, I. Saqib, N. Siddik, A.B. Alam, M.M.	Resources Policy
Offshoring the scarring causes and effects of environmental challenges faced by the advanced world: an empirical evidence	Yasin, I. Aslam, A. Siddik, A.B. Abbass, K. Murshed, M.	Environmental Science and Pollution Research
The role of renewable energy investment in tackling climate change concerns: Environmental policies for achieving SDG-13	He, X. Khan, S. Ozturk, I. Murshed, M.	Sustainable Development

Activities and Initiatives:

Policy Discussion: “Pre-COP29: Advancing Sustainable Living & Green Economy for Climate Action”



DIU in collaboration with the Global Law Thinkers Society (GLTS), organized the “Pre-COP29 Policy Discussion: Advancing Sustainable Living & Green Economy for Climate Action” at Daffodil Smart City. It brought together academics, representatives from civil society organizations (CSOs), NGOs, government officials, and other stakeholders to discuss Bangladesh’s role and contributions to global climate action in preparation for the 29th Conference of the Parties (COP29), scheduled for November 2024 in Baku, Azerbaijan. DIU’s representatives along with GLTS will attend and deliver presentation in the COP29 session to address policy issues on climate loss and damage. With nearly 200 countries participating, COP29 serves as a pivotal platform for assessing global progress on climate goals, negotiating commitments, and fostering international cooperation to address climate change.

Collaboration on Future Birulia Design Proposal

The Department of Architecture at Daffodil International University hosted the local Union Parishad Chairman, ward councilors, and approximately 15 local community representatives to share the design proposal for "Future Birulia." This initiative, part of the 'Ashulia Urban Lab,' was spearheaded by the Level-4, Term-1 design studio, led by Ahmed Inzamam Chowdhury, focusing on developing a spatial framework for the area. Following the presentation, students were invited to the chairman's office for a workshop visit, fostering a collaborative spirit and commitment to work closely together on the project. This engagement aligns with SDG 11 (Sustainable Cities and Communities) by promoting community involvement and sustainable urban development practices.



DIU Team Stand by Flood Affected People



Seminar on Sustainable Living: Earth Architecture and Construction with Natural Materials



On February 26, 2023, a seminar titled "Sustainable Living: Earth Architecture and Construction with Natural Materials" took place at the Prof. Dr. Aminul Islam Seminar Hall, Daffodil International University, featuring Arch. Tommaso Bazzechi as the keynote speaker. Moderated by Afra Anan Saba, the seminar attracted students and faculty from the Department of Architecture. Arch. Bazzechi, with over 15 years of

experience in design and construction management specializing in natural materials, shared his expertise on innovative and sustainable building techniques, concluding with a lively question-and-answer session with the students. The seminar was further enriched by a presentation from Arch. Sheikh Md. Rezwan, Associate Head of the Department, on the "Participatory Approach to Preserve Jamdani Weaver's House as Cultural Heritage."

Embedded System Research Lab's Contribution to SDGs

The Embedded System Research Lab at Daffodil International University is dedicated to advancing the Sustainable Development Goals (SDGs) through innovative research in climate change monitoring, climate-resilient agriculture, industry automation, and smart city initiatives. The lab leverages IoT-based sensor technologies and embedded systems to develop solutions aimed at reducing carbon emissions, enhancing energy efficiency, promoting sustainable agriculture, and driving automation



in various industries. Additionally, the lab's smart city projects focus on sustainability, resource optimization, and environmental protection. Following visits to biogas plants and research centers, the lab launched a research project to monitor carbon emissions using IoT sensors, with the goal of optimizing biogas production and reducing greenhouse gas emissions. This initiative aligns with SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities), and SDG 13 (Climate Action). Visit: <https://www.facebook.com/diues/>

Fostering International Collaboration for Sustainable Development Goals Through Storytelling



The "Swinburne's Study Tour 2024: The Digital and Mobile Storytelling Festival" at Daffodil International University marks a significant milestone in international collaboration for gathering data relevant to the Sustainable Development Goals (SDGs). This 14-day program involves 22 students and two faculty members from Swinburne University of Technology in Australia and is supported by the Australian Government's New Colombo Plan. Participants are divided

into groups focusing on urban life representation, child labor, and women's empowerment, directly aligning their work with SDG 11 (Sustainable Cities and Communities), and SDG 5 (Gender Equality). By documenting urban environments, addressing the issue of child labor, and exploring women's challenges, this initiative contributes valuable insights and data to inform policies and drive progress towards achieving these critical global objectives. Overall, the Swinburne Study Tour exemplifies how academic partnerships can enhance understanding of pressing global issues while advancing collective efforts to create a more just and sustainable world.

Collaboration with Notundhora Asset Ltd. on Smart Living

The Department of Real Estate organized a seminar on "Smart Living" in collaboration with Notundhora Assets Ltd. and also signed a Memorandum of Understanding (MoU) to strengthen industry-academia ties. The seminar focused on creating sustainable living spaces for communities, emphasizing the importance of future cities and settlements that are safe, resilient, sustainable, and inclusive. This initiative aligns with Sustainable Development Goal 11 (Sustainable Cities and Communities), which promotes the development of urban areas that enhance the quality of life for all inhabitants.



Visit to Mithela Group of Industry: Exploring LEED Platinum Certified Practices

Students from Level-5, Term-1 of the Department of Architecture at Daffodil International University visited the "Mithela Group of Industry," recognized as the first LEED Platinum Certified industry in Bangladesh. The visit was guided by Ar. Nazmul Hoque Nayeem, Assistant Professor in the department, who provided valuable insights into the industry's sustainable practices. Students explored various aspects of the factory, including space utilization, dyeing and printing research facilities, waste disposal management systems, firefighting systems, effluent treatment plants (ETP), water treatment plants (WTP), and other community facilities. This experience will inform their upcoming design project in phase 2, where they will incorporate LEED certification principles into their textile industry design. This initiative aligns with SDG 9 (Industry, Innovation, and Infrastructure) by promoting sustainable industrial practices and enhancing students' understanding of environmentally conscious architecture. Special thanks to Mithela Textile Industries Ltd. for their warm hospitality and for facilitating this guided tour.



Collaboration between Department of Real Estate and Agreen Foundation



Students from the Department of Real Estate attended the National Youth Entrepreneurship Summit (2023), organized by Agreen Foundation. This program aimed to unlock the potential of young individuals, encouraging them to create, innovate, and take on leadership roles. The initiative aligns with Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure), as it fosters an innovative mindset that cultivates future leaders and entrepreneurs.

HRDI's session on 'Sustainable Living: Small Change, Big Impact'

Mr. Amir Hamza of HRDI led an engaging session at Bangladesh Training and Research Foundation (BTRF), organized by Good Neighbors Bangladesh. He conducted a session on 'Sustainable Living: Small Change, Big Impact'. The participants, who explored how small changes in daily habits can lead to significant long-term impacts and made this event a success.



Seminar on Environment Friendly Housing and Recycling Construction Waste

The Department of Real Estate organized a seminar on "Environment-Friendly Housing and Recycling of Construction Waste," featuring Mr. M. A. Baten Khan, Managing Director of BDDL Properties Ltd., as the keynote speaker. The seminar emphasized the development of green buildings by incorporating clean and renewable energy sources, promoting the sustainable use of water, and reducing pollution and waste from construction processes.



Promoting Sustainable Agriculture through Seedling Provision in Disaster-Affected Communities



The promotion of sustainable agricultural practices through the provision of seedlings encourages responsible production, helping communities manage resources more efficiently, especially in

the aftermath of environmental disasters.

Enhancing Campus Safety: Fire Extinguisher Training at DIU

In response to the recent alarming fire incidents across Bangladesh, Daffodil International University (DIU) conducted a Fire Extinguisher Training session aimed at bolstering campus safety. The training was designed to equip administrative staff with essential fire-fighting skills and increase awareness of fire risk situations. Participants were trained on the effective use of fire extinguishers and learned strategies to mitigate fire risks. This initiative highlights DIU's ongoing commitment to ensuring a safer campus environment. Stay tuned for more safety awareness programs as we continue to prioritize the well-being of our community.





Ensure sustainable consumption and production patterns

SDG 12:

Sustainable Development Goal 12, titled "responsible consumption and production", is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The official wording of SDG 12 is "Ensure sustainable consumption and production patterns".

DIU’s contribution and Progress:

DIU Green-Garden and Food Court source required food and supplies considering health safety, hygiene, organic issues.
DIU has established organic waste management system in campus
DIU has established inorganic waste management system in campus
DIU has established sustainable sewage disposal system in campus
DIU is following plastic reduction policy in campus
Total organic waste produced: 20.7 metric ton and recycled 6.9 metric ton
Total inorganic waste produced: 5.1 metric ton and reused 3 metric ton
Toxic waste handled in an environment-friendly way

Contributions to Research Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-12. Below is a highlight of such contribution:

Title	Authors	Publication Source
Improved Virtualization to Reduce e-Waste in Green Computing	Meharaj-Ul-Mahmmud Laskar, M.S. Arafin, M. Molla, M.S. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Nexus among blockchain visibility, supply chain integration and supply chain performance in the digital transformation era	Tan, C.L. Tei, Z. Yeo, S.F. Lai, K.-H. Kumar, A. Chung, L.	Industrial Management and Data Systems
The Impact of Proactive Resilience Strategies on Organizational Performance: Role of Ambidextrous and Dynamic Capabilities of SMEs in Manufacturing Sector	Pertheban, T.R. Thurasamy, R. Marimuthu, A. Venkatachalam, K.R. Annamalah, S. Paraman, P. Hoo, W.C.	Sustainability (Switzerland)
A Policy Framework for Improving E-Waste Management in Bangladesh	Ananna, S.S. Supty, N.S. Shorna, I.J. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Plastic, Plastic Pollution and Plastic Recycling: An Overview in Bangladesh Perspective	Babu, K.-E.-K.	Indian Journal of Environmental Protection

Optimal maintenance for a waste-to-energy plant using DEMATEL: a case study	Igodo, A. Shamsuzzoha, A. Ndzibah, E. Shamsuzzaman, M.	Clean Technologies and Environmental Policy
Heterogeneous effects of energy productivity improvement on consumption-based carbon footprints in developed and developing countries: The relevance of improving institutional quality	Yang, J. Huang, H. Sanyal, S. Khan, S. Alam, M.M. Murshed, M.	Gondwana Research
Green finance continuance behavior: the role of satisfaction, social supports, environmental consciousness, green bank marketing initiatives and psychological reactance	Al Amin, M. Ahad Mia, M.A. Bala, T. Iqbal, M.M. Alam, M.S.	Management of Environmental Quality: An International Journal
Sustainable and Profitable IT Infrastructure of Bangladesh Using Green IT	Ahmed, F. Basak, B. Chakraborty, S. Karmokar, T. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Theories applied in corporate voluntary disclosure: a literature review	Rouf, M.A. Siddique, M.N.-E.-A.	Journal of Entrepreneurship and Public Policy
Minimizing E-Waste Through Improved Virtualization	Liza, M.A. Suny, A. Shahjahan, R.M.B. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
The moderating effect of corporate social responsibility between green human resource management and organizations' environmental performance	Masud, M.M. Jafrin, N. Mohammad Saif, A.N. Al-Mamun, A.	Journal of Environmental Planning and Management
E-waste Management and Recycling Model for Dhaka with Collection Strategy Application: A More Effective and Sustainable Approach	Sakib, M.N. Hasan, M.M. Faiza, A. Nova, S.R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Massilia agrisoli sp. nov., isolated from rhizospheric soil of banana	Huq, M.A. Ma, J. Srinivasan, S. Parvez, M.A.K. Rahman, M.M. Naserkheil, M. Abuhena, M. Maitra, P. Islam, F. Nam, K. Park, J.-H. Akter, S.	International Journal of Systematic and Evolutionary Microbiology
Climate change in Bangladesh: Temperature and rainfall climatology of Bangladesh for 1949-2013 and its implication on rice yield	Alam, E. Hridoy, A-E.E. Tusher, S.M.S.H. Islam, A.R.M.T. Islam, M.K.	PLoS ONE
Modeling and Simulation of 4.8 kW Grid Connected Solar PV Based Water Pumping System	Halder, S. Baten, T.	2023 10th IEEE International Conference

for Sustainable Agricultural Irrigation		on Power Systems, ICPS 2023
Designing a Sustainable E-Waste Management Framework for Bangladesh	Ahsan, M. Yousuf, M. Rahman, M.S. Proma, F.I. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Can utilising renewable and nuclear energy harness the environmental sustainability agenda of the G7 countries? The importance of undergoing clean energy transition	Murshed, M. Khan, A.M. Khan, U. Khan, M.S. Parvin, R.A.	International Journal of Ambient Energy
Environmental uncertainty and digital technologies corporate in shaping corporate green behavior and tax avoidance	Ao, X.-Y. Ong, T.S. Aprile, R. Di Vaio, A.	Scientific Reports
Enabling green shared vision: linking environmental strategic focus and environmental performance through ISO 14001 and technological capabilities	Ong, T.S. Lee, A.S. Latif, B. Sroufe, R. Sharif, A. Heng Teh, B.	Environmental Science and Pollution Research
Can minimizing risk exposures help in inhibiting carbon footprints? The environmental repercussions of international trade and clean energy	Shi, C. Murshed, M. Alam, M.M. Ghardallou, W. Balsalobre-Lorente, D. Khudoykulov, K.	Journal of Environmental Management
The impacts of globalization, renewable energy, and agriculture on CO2 emissions in India: Contextual evidence using a novel composite carbon emission-related atmospheric quality index	Shabbir Alam, M. Duraisamy, P. Bakkar Siddik, A. Murshed, M. Mahmood, H. Palanisamy, M. Kirikkaleli, D.	Gondwana Research
Global Challenges in Identifying Plant Pathogenic Fungi: An Overview with Suggestions for the Way Forward	Dayarathne, M.C. Thambugala, K.M. Daranagama, D.A. Mridha, A.U. Dissanayake, A.J. Dissanayake, L.S. Maharachchikumbura, S.S.N. Rathnayake, R.M.C.S. Lumyong, S. Hongsanant, S.	Chiang Mai Journal of Science
Promoting sustainable development through strategies, environmental management accounting and environmental performance	Appannan, J.S. Mohd Said, R. Ong, T.S. Senik, R.	Business Strategy and the Environment
Transforming Supply Chains: Powering Circular Economy with Analytics, Integration and	Shafique, M.N. Rashid, A. Yeo, S.F. Adeel, U.	Sustainability (Switzerland)

Flexibility Using Dual Theory and Deep Learning with PLS-SEM-ANN Analysis		
Green Cloud Computing: A Sustainable Energy-Efficiency Approach for Business Rapidity and the Environment	Bristy, S.S. Azam, T. Islam, M.M. Rahman, R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Recent advances in graphene-derived materials for biomedical waste treatment	Obayomi, K.S. Lau, S.Y. Mayowa, I.E. Danquah, M.K. Jianhua, Z. Chiong, T. Meunier, L. Rahman, M.M.	Journal of Water Process Engineering
KGR-Rainfall: Temperature-Based Rainfall Prediction in Bangladesh with Novel KGR Stacking Ensemble	Bitto, A.K. Rubi, M.A. Bijoy, M.H.I. Shuvo, S.D. Das, A. Chowdhury, A.	2023 International Conference on Artificial Intelligence and Applications, ICAIA 2023 and Alliance Technology Conference, ATCON-1 2023 - Proceeding
A comprehensive review of food waste valorization for the sustainable management of global food waste	Sarker, A. Ahmmed, R. Ahsan, S.M. Rana, J. Ghosh, M.K. Nandi, R.	Sustainable Food Technology
Remote sensing of air pollution due to forest fires and dust storm over Balochistan (Pakistan)	Tariq, S. Nawaz, H. Mehmood, U. ul Haq, Z. Pata, U.K. Murshed, M.	Atmospheric Pollution Research
Modeling eco-friendly house purchasing intention: a combined study of PLS-SEM and fsQCA approaches	Chanda, R.C. Vafaei-Zadeh, A. Hanifah, H. Thurasamy, R.	International Journal of Housing Markets and Analysis

Activities and Initiatives:

Hosted International Summit on Innovation and Sustainability in Textiles (ISTIS 1.0)

The Department of Textile Engineering at Daffodil International University (DIU) organized the International Summit on Innovation and Sustainability 1.0 (ISTIS 1.0), with a focus on advancing innovation and sustainability in the textile sector. The summit brought together experts and industry leaders to discuss the challenges and opportunities within the industry, with an emphasis on sustainable practices. Through insightful discussions, the summit



fostered new partnerships, identified key challenges, and promoted research aimed at creating a more environmentally friendly textile industry. This initiative aligns with SDG 9 (Industry, Innovation,

and Infrastructure), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action), driving the textile industry towards a sustainable future.

International Collaboration and SDG Progress in Waste-to-Energy Initiatives



Daffodil International University (DIU) recently collaborated with Indian institutions to advance waste management and waste-to-energy initiatives. This collaboration, which included a visit to Centurion University of Science and Technology (CUTM) and Kalinga Institute of Science and

Technology, focused on shared learning and capacity building. Key findings from the visit highlighted CUTM's micro-credential courses, which prioritize hands-on, practical training in sustainability, and their innovative waste management initiatives such as bio-composting, vermicomposting, and a biogas plant.

Reduce and Reuse of Plastic in campus



Replacing plastic-based ball pen to biodegradable paper-based pen



Reuse of plastic bottles

Award-Winning Research on Food Waste Decomposition

Dr. Imran Mahmud from the Department of Software Engineering and Dr. Ashikur Rahman from the Department of Information Technology & Management conducted significant research on food waste decomposition,



focusing on sustainable management practices. Their work was recognized with an award in the academic research category by the Project Management Institute, Bangladesh. This research contributes to SDG 12: Responsible Consumption and Production by addressing food waste and promoting sustainable practices in waste management, highlighting the importance of innovative solutions for environmental challenges.

Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh: A Workshop by UNICEF and ESDO



UNICEF and the Environment and Social Development Organization (ESDO) organized the workshop "Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh," which focused on evaluating the country's current framework for addressing lead poisoning. Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, actively participated in discussions on the status of lead poisoning in Bangladesh,

highlighting gaps in the existing legal policies. This workshop aligns with SDG 3 (Good Health and Well-being) and SDG 12 (Responsible Consumption and Production), aiming to strengthen regulations to reduce lead exposure and improve public health.

Attending Consumer’s Right Workshop

Students from the Department of Real Estate participated in a workshop on Consumer Rights, where they gained valuable insights into their rights as consumers and how to become more informed and responsible citizens. This workshop aligns with Sustainable Development Goal 12 (Responsible Consumption and Production), as it promotes awareness of sustainable consumption practices and encourages more mindful decision-making in both personal and professional contexts.



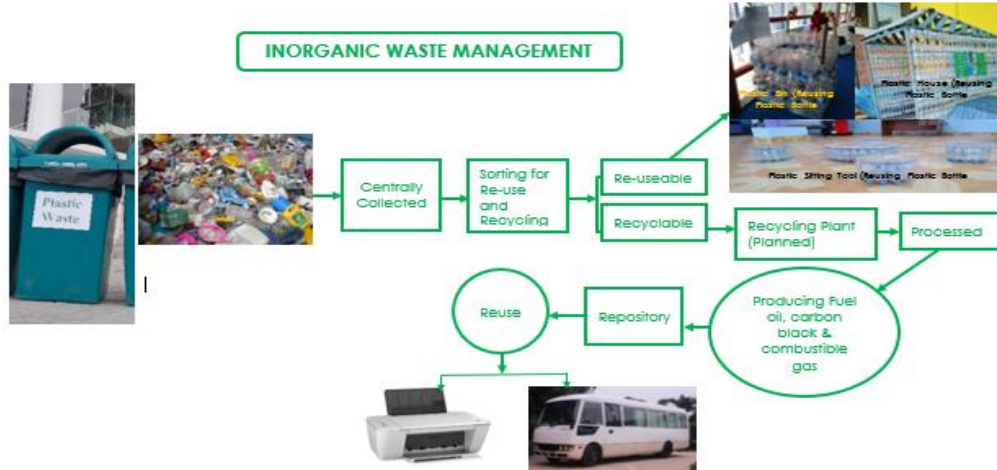
Various Waste Management Initiatives at DIU



Organic waste management system:



Inorganic Waste Management



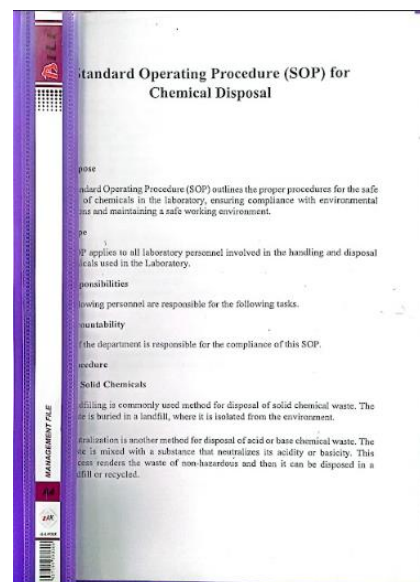
Hazardous Chemical Handling with Proper Safety and Care:



Biological Waste for Landfilling

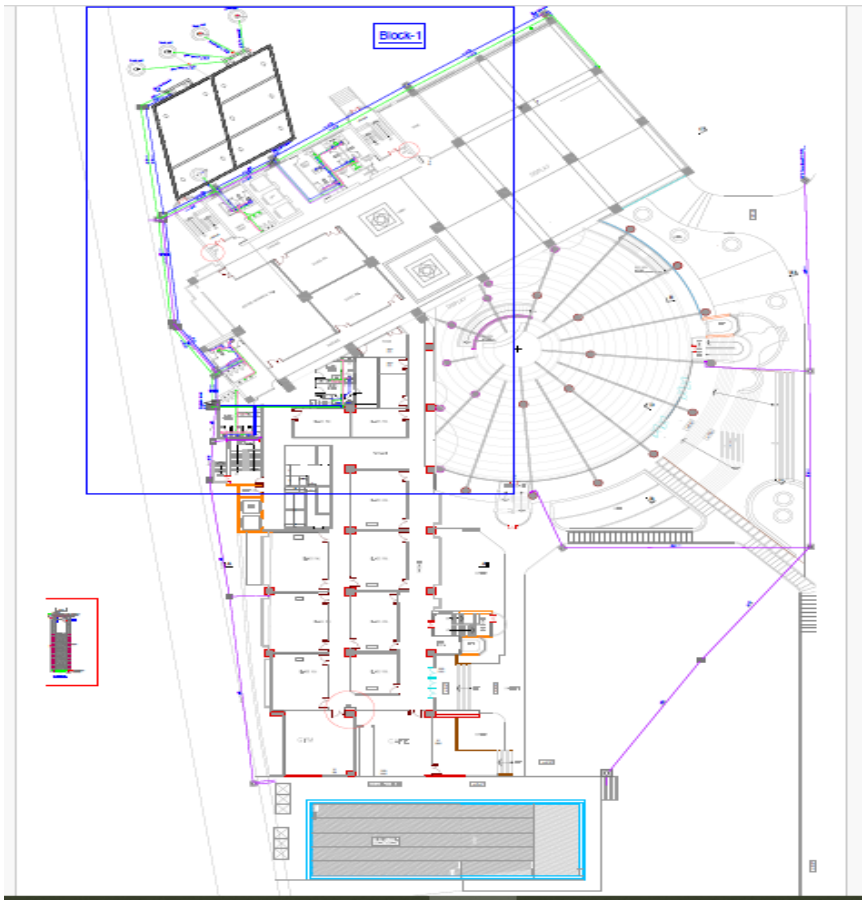


Microbial Waste for Autoclaving





Sewage System at DIU





**Take urgent action
to combat
climate change
and its impacts**

SDG 13:

Sustainable Development Goal 13 is to limit and adapt to climate change. It is one of 17 Sustainable Development Goals established by the United Nations General Assembly in 2015. The official mission statement of this goal is to "Take urgent action to combat climate change and its impacts".

DIU's Contribution and Progress:

Signatory to SDG Accord	Yes
Reported to SDG Accord	Yes
Race to Zero Commitment	Member
Sustainable Development Solutions Network	Member
Established Academic Department	Department of Environmental Science & Disaster Management Department of Agricultural Science
Climate Action Strategy	Implementation stage
Climate change related projects	3 (1 completed & 2 in progress)

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-13. Below is a highlight of such contribution:

Title	Authors	Publication Source
A regional appraisal of electricity accessibility determinants: the relevance of international remittances, clean energy, income inequality, and institutional quality	Murshed, M.	Environmental Science and Pollution Research
Seribu islands in the megacities of Jakarta on the frontlines of the climate crisis	Setiawati, M.D. Chatterjee, U. Djamil, Y.S. Alifatri, L.O. Nandika, M.R. Rachman, H.A. Supriyadi, I.H. Hanifa, N.R. Muslim, A.M. Eguchi, T. Prayudha, B. Oktaviani, A. Adi, N.S. Renyaan, J. Sulha, S. Wouthuyzen, S. Pal, S.C. Islam, A.R.M.T. Alam, E. Islam, M.K.	Frontiers in Environmental Science
Does higher energy efficiency growth homogeneously affect carbon emission growth rate across developing Sub-	Zhou, T. Haque, A. Alam, M.M. Murshed, M. Khudoykulov, K. Haseeb, M.	Environmental science and

Saharan African nations? The importance of utilizing clean energy		pollution research international
Does the depth of the Financial Markets matter for establishing Green Growth? Assessing Financial sector's potency in decoupling Economic Growth and Environmental Pollution	Yuan, X. Murshed, M. Khan, S.	Evaluation Review
Economic growth and environmental pollution nexus in Bangladesh: revisiting the environmental Kuznets curve hypothesis	Islam, M. Alam, M. Ahmed, F. Al-Amin, A.Q.	International Journal of Environmental Studies
Heterogeneous effects of energy productivity improvement on consumption-based carbon footprints in developed and developing countries: The relevance of improving institutional quality	Yang, J. Huang, H. Sanyal, S. Khan, S. Alam, M.M. Murshed, M.	Gondwana Research
Can enhancing financial inclusivity lower climate risks by inhibiting carbon emissions? Contextual evidence from emerging economies	Murshed, M. Ahmed, R. Khudoykulov, K. Kumpamool, C. Alrwashdeh, N.N.F. Mahmood, H.	Research in International Business and Finance
Eco-friendly and cost-effective self-compacting concrete using waste banana leaf ash	Mim, N.J. Meraz, M.M. Islam, M.H. Noroozinejad Farsangi, E. Mehedi, M.T. Arafin, S.A.K. Shrestha, R.K.	Journal of Building Engineering
Evaluating the role of renewable energy and technology innovations in lowering CO2 emission: a wavelet coherence approach	Mehmood, U. Tariq, S. Haq, Z. Nawaz, H. Ali, S. Murshed, M. Iqbal, M.	Environmental Science and Pollution Research
Investigation of Thermochemical Properties and Pyrolysis of Barley Waste as a Source for Renewable Energy	Reza, M.S. Taweekun, J. Afroze, S. Siddique, S.A. Islam, M.S. Wang, C. Azad, A.K.	Sustainability (Switzerland)
Computational and experimental analysis of foxtail millet under salt stress and selenium supplementation	Saleem, S. Alghamdi, K.M. Mushtaq, N.U. Tahir, I. Bahieldin, A. Henrissat, B. Alghamdi, M.K. Rehman, R.U. Hakeem, K.R.	Environmental Science and Pollution Research
Corrigendum to 'Multifaceted role of polyphenols in the treatment and management of neurodegenerative diseases' [Chemosphere 307 (2022) 136020] (Chemosphere (2022) 307(P3), (S0045653522025139), (10.1016/j.chemosphere.2022.136020))	Islam, F. Islam, M.M. Khan Meem, A.F. Nafady, M.H. Islam, M.R. Akter, A. Mitra, S. Alhumaydhi, F.A. Emran, T.B. Khusro, A. Simal-Gandara, J. Eftekhari, A. Karimi, F. Baghayeri, M.	Chemosphere

The potentials of Si-doped magnesium oxide nanotubes for decontamination of pollutants	Saadu Itas, Y. Danmadami, A.M. Razali, R. Khandaker, M.U.	Physica Scripta
Harnessing digital solutions for sustainable development: a quantile-based framework for designing an SDG framework for green transition	Saqib, N. Mahmood, H. Murshed, M. Duran, I.A. Douissa, I.B.	Environmental Science and Pollution Research
Anthropogenic drivers induced desertification under changing climate: Issues, policy interventions, and the way forward	Pal, S.C. Chatterjee, U. Chakraborty, R. Roy, P. Chowdhuri, I. Saha, A. Towfiqul Islam, A.R.M. Alam, E. Islam, M.K.	Progress in Disaster Science
Decarbonization blueprints for developing countries: The role of energy productivity, renewable energy, and financial development in environmental improvement	Yan, C. Murshed, M. Ozturk, I. Siddik, A.B. Ghardallou, W. Khudoykulov, K.	Resources Policy
Can clean energy adoption and international trade contribute to the achievement of India's 2070 carbon neutrality agenda? Evidence using quantile ARDL measures	Das, N. Murshed, M. Rej, S. Bandyopadhyay, A. Hossain, M.E. Mahmood, H. Dagar, V. Bera, P.	International Journal of Sustainable Development and World Ecology
An empirical re-investigation for verifying the pollution haven hypothesis concerning the foreign direct investment-carbon intensity nexus: Contextual evidence from BRICS	Murshed, M.	Environmental Challenges
The Connection between Absorptive Capacity and Green Innovation: The Function of Board Capital and Environmental Regulation	Javeed, S.A. Teh, B.H. Ong, T.S. Lan, N.T.P. Muthaiyah, S. Latief, R.	International Journal of Environmental Research and Public Health
A Sustainable Approach Between Satellite and Traditional Broadband Transmission Technologies Based on Green IT	Mukto, M.M. Al Mahmud, M.M. Ahmed, M.A. Haque, I. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems
Causality analysis of the impacts of petroleum use, economic growth, and technological innovation on carbon emissions in Bangladesh	Chen, X. Rahaman, M.A. Murshed, M. Mahmood, H. Hossain, M.A.	Energy
Climate change in Bangladesh: Temperature and rainfall climatology of Bangladesh for 1949-2013 and its implication on rice yield	Alam, E. Hridoy, A-E.E. Tusher, S.M.S.H. Islam, A.R.M.T. Islam, M.K.	PLoS ONE
Modeling and Simulation of 4.8 kW Grid Connected Solar PV Based Water	Halder, S. Baten, T.	2023 10th IEEE International Conference on

Pumping System for Sustainable Agricultural Irrigation		Power Systems, ICPS 2023
Can utilising renewable and nuclear energy harness the environmental sustainability agenda of the G7 countries? The importance of undergoing clean energy transition	Murshed, M. Khan, A.M. Khan, U. Khan, M.S. Parvin, R.A.	International Journal of Ambient Energy
Climate Change and Humanitarian Responses: A Proposal of Education for Health Hazards Preparedness	Cardoso, J.C. Parveen, M. Fonseca, M.S.A. Grzelak, L.	Climate Change Management
Advanced Applications of Carbonaceous Materials in Sustainable Water Treatment, Energy Storage, and CO2 Capture: A Comprehensive Review	Reza, M.S. Afroze, S. Kuterbekov, K. Kabyshev, A. Zh. Bekmyrza, K. Haque, M.N. Islam, S.N. Hossain, M.A. Hassan, M. Roy, H. Islam, M.S. Pervez, M.N. Azad, A.K.	Sustainability (Switzerland)
Research trends on natural disasters in the context of India: A bibliometric analysis	Hossain, B. Sarker, M.N.I. Shi, G. Sohel, M.S.	Disaster, Displacement and Resilient Livelihoods: Perspectives from South Asia
Can minimizing risk exposures help in inhibiting carbon footprints? The environmental repercussions of international trade and clean energy	Shi, C. Murshed, M. Alam, M.M. Ghardallou, W. Balsalobre-Lorente, D. Khudoykulov, K.	Journal of Environmental Management
The impacts of globalization, renewable energy, and agriculture on CO2 emissions in India: Contextual evidence using a novel composite carbon emission-related atmospheric quality index	Shabbir Alam, M. Duraisamy, P. Bakkar Siddik, A. Murshed, M. Mahmood, H. Palanisamy, M. Kirikkaleli, D.	Gondwana Research
Influence of Catalyst on the Yield and Quality of Bio-Oil for the Catalytic Pyrolysis of Biomass: A Comprehensive Review	Reza, M.S. Zhanar Baktybaevna, I. Afroze, S. Kuterbekov, K. Kabyshev, A. Bekmyrza, K.Z. Kubenova, M.M. Bakar, M.S.A. Azad, A.K. Roy, H. Islam, M.S.	Energies
CO2 Discharges, Consumption of Energy, and Growth of GDP in KSA: A Pragmatic Analysis	Babu, M.A. Ahmmed, M.M. Anam, S. Rahman, M.M.	Lecture Notes in Networks and Systems
Green Cloud Computing: A Sustainable Energy-Efficiency Approach for Business Rapidity and the Environment	Bristy, S.S. Azam, T. Islam, M.M. Rahman, R. Reza, A.W. Arefin, M.S.	Lecture Notes in Networks and Systems

Activities and Initiatives:

Collaboration with GLTS for Combating Climate Change



Daffodil International University (DIU) and the Global Law Thinkers Society (GLTS) have formed a strategic partnership aimed at addressing some of the world's most pressing challenges: climate change, youth leadership, and the advancement of

the United Nations Sustainable Development Goals (SDGs). This collaboration, which focuses on pivotal areas such as climate finance, climate justice, and loss and damage, marks a significant step toward fostering global cooperation and youth-driven action. DIU and GLTS are also preparing to participate in major international climate platforms, including COP29 in Baku, Azerbaijan. This partnership is set to amplify youth leadership on climate change through joint research initiatives, workshops, training, and active participation in both national and international climate forums. A key focus will be their coordinated efforts at UNFCCC COP & SB Conferences, where they will advocate for actionable policies and concrete measures addressing the climate crisis. It will also support broader SDG initiatives, promoting environmental sustainability, peace, justice, and global education.

HRDI at the Young Negotiator Programme: Climate Diplomacy Workshop

Mr. Amir Hamza, Assistant Director of HRDI, represented HRDI as a trainer at this pre-COP event, organized by LCOY Bangladesh and hosted by GAIN. During this 3-day workshop, Mr. Hamza led a session on staying focused on critical environmental issues, preparing young negotiators for high-level climate discussions. HRDI is proud to support initiatives that foster future leaders in climate diplomacy.



Curriculum Symposium: Empowering Climate Action Through Creative Expression

The "Curriculum Symposium" provided a platform for students to present creative projects focused on climate change, showcasing their work through performances, audio-visual presentations, infographics, and news stories. This event highlighted the urgent need for sustainable solutions while connecting academia with industry experts and academics. The symposium's contributions to Sustainable Development Goals (SDGs) policy development include advocating for green energy policies that promote renewable energy sources, enhancing public awareness through educational campaigns about climate change, supporting sustainable urban planning initiatives, and strengthening climate legislation to limit carbon emissions and protect natural resources.



DIU Students Joined COP29 Simulation 2024 in Egypt



DIU students Fatema Tuj Juhura Sadia, and Md Tahmid Chowdhury represented Bangladesh at COP29 Simulation 2024 hosted by The British University in Egypt in collaboration with UNDP Egypt

and ADA University from 4 to 10 October, 2024. Their hard work, research and Online Capacity-Building Programmes allowed them to receive fully-funded scholarships to attend this global event of many dialogues & sessions focusing on the SDGs, diplomacy and Climate Action.

National Photography Contest: Capturing Climate Action through Visual Narratives



The "National Photography Contest," part of JMC Media Buzz, effectively supports Sustainable Development Goal (SDG) 13: Climate Action by engaging participants to document the impacts of climate change through photography. This initiative raises awareness of environmental challenges and emphasizes the urgent need for policy development focused on climate change.

The powerful visual narratives produced can serve as critical evidence for policymakers, illustrating the real effects of climate change on communities and ecosystems. By showcasing these narratives,

the contest promotes various strategies for climate action, including a transition to renewable energy, enhancing energy efficiency, adopting sustainable agricultural practices, supporting sustainable transportation, implementing effective climate policies, and raising awareness through education.

Advancing Sustainable Development Goals Through Waste Management and Public Health Initiatives

Dr. Mahfuza Parveen, Associate Professor of ESDM at Daffodil International University, presented at the Stakeholder Consultation Workshop on "Quick Assessment on Methane from Landfills in Dhaka" on July 2, 2024, alongside the Global Alliance for Incinerator Alternatives (GAIA). This initiative assessed the impact of waste flow on greenhouse gas emissions and aimed to promote effective organic waste management policies through discussions among



participants from academia, government, and civil society, aligning with SDG 13 (Climate Action) and SDG 11 (Sustainable Cities and Communities). Additionally, the Mosquito Control Project at Daffodil Smart City, led by Professor Dr. Kabirul Bashar, focuses on preventing mosquito breeding by identifying breeding sites and assessing species diversity, with real-time monitoring implemented through Power BI. This project contributes to SDG 3 (Good Health and Well-Being) by enhancing public health and safety. Together, these initiatives underscore the importance of localized actions and collaboration in achieving the Sustainable Development Goals (SDGs) related to environmental management and public health.

PEER Asia Forum Organized by USAID and NASEM in Thailand



Professor Dr. A.B.M. Kamal Pasha, Head of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the PEER Asia forum, held in Bangkok, Thailand, from May 20-22, 2024. Organized by USAID and the National Academies of Sciences, Engineering, and Medicine (NASEM), the forum provided a platform for Dr. Pasha to present findings from his collaborative project, "Unmanned Aerial Systems-Based Assessment of Tree Cover and Deforestation Dynamics in

Bangladesh." His research, conducted under the theme of Environmental Monitoring and Ecosystem Services, utilized UAVs (drones) for cost-effective, high-precision imaging of forest canopies in the Sal and Sundarbans forests. The project's use of UAVs to generate geo-referenced canopy data exemplifies innovative environmental monitoring practices, aligning with SDG 15 (Life on Land) and SDG 13 (Climate Action) by contributing to better forest management and ecosystem protection.

International Collaboration and SDG Progress in Waste-to-Energy Initiatives

Daffodil International University (DIU) recently collaborated with Indian institutions to advance waste management and waste-to-energy initiatives. This collaboration, which included a visit to Centurion University of Science and Technology (CUTM) and Kalinga Institute of Science and Technology, focused on shared learning and capacity building. Key findings from the visit highlighted CUTM's micro-credential courses, which prioritize hands-on, practical training in sustainability, and their innovative waste management initiatives such as bio-composting, vermicomposting, and a biogas plant.



International Training on Sustainable Land Management: Principles, Practices, and Application in India



Dr. Mahfuza Parveen, Associate Professor of ESDM at DIU, participated in a five-day international training on "Sustainable Land Management: Principles, Practices, and Application," held from March 6-10, 2024. The training, which included 19 participants from 12 countries, focused on addressing land degradation and promoting ecosystem health,

with an emphasis on achieving the Sustainable Development Goals (SDGs). Dr. Parveen contributed her insights on sustainable land management practices and SDG alignment. The event featured resource persons from four countries and covered a wide range of topics, including policy frameworks, practical applications, and case studies. Participants also visited restoration sites, observing innovative land restoration techniques and practices in India. The program reinforced the global commitment to sustainable land management, aligning with SDG 15 (Life on Land) and SDG 13 (Climate Action).

Participation in the 3rd International Conference on Green Sustainable Technology and Management in Malaysia

Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the 3rd International Conference on Green Sustainable Technology and Management (ICGSTM 2024) from June 19-21 in Kuala Lumpur, Malaysia. As one of



Powering the Future: Overcoming the Energy Crisis with Sustainable Solutions



The seminar titled "Powering the Future: Overcoming the Energy Crisis with Sustainable Solutions" addressed global energy challenges through innovative practices. The Dean of the Faculty of Engineering discussed the role of renewable energy sources like solar and wind in reducing reliance on fossil fuels and achieving energy security, while emphasizing smart grid technologies for efficient management. The event included panel discussions

on barriers to renewable energy adoption, innovative financing models, and public-private partnerships, fostering a collaborative environment for critical thinking. By promoting sustainable energy development and the urgent transition to renewable sources, the seminar aligns with Sustainable Development Goals 7 (Affordable and Clean Energy), 9 (Industry, Innovation, and Infrastructure), and 13 (Climate Action).

Building Climate Resilience through Seedling Provision and Sustainable Agriculture

Providing seedlings helps communities adapt to the impacts of climate change, such as floods, by building resilience in agricultural practices. This aligns with the goal of strengthening resilience to climate-related disasters. Many of the department's activities, including research on crops that can thrive in changing environmental conditions and the promotion of sustainable agricultural practices, help mitigate the impact of climate change. These efforts support **SDG 13**, which calls for urgent action to combat climate change



Free bicycle for on campus movement

Daffodil International University's new eco-friendly initiative (free bicycle for on campus movement), supported by PRAN-RFL Group, promotes bicycles as pollution-free transportation.



Electric Cars in Campus

DIU has a good number of electric cars to ensure environment-friendly movement on campus by its stakeholders with zero carbon emission. It has a charging station for electric vehicles. The electric cars operate around the campus during the entire day for on campus movement as fuel-based vehicles are prohibited to enter the campus.



Charging station for electric vehicles:





Conserve and sustainably use the oceans, seas and marine resources for sustainable development

SDG 14:

Sustainable Development Goal 14 is about "Life below water" and is one of the 17 Sustainable Development Goals established by the United Nations in 2015. The official wording is to "Conserve and sustainably use the oceans, seas and marine resources for sustainable development".

DIU's Contributions and Progress:

Set up an academic department on Agricultural Science
Implementing a project on cultivating fish in the transformed DIU Lake water
Follows water discharge guidelines
Has been implementing plastic reduction policy in campus
Has been implementing the Guidelines on Water Pollution Reduction in campus

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-14. Below is a highlight of such contribution:

Title	Authors	Publication Source
Contamination and ecological risk assessment of Cr, As, Cd and Pb in water and sediment of the southeastern Bay of Bengal coast in a developing country	Islam, M.S. Islam, M.T. Antu, U.B. Saikat, M.S.M. Ismail, Z. Shahid, S. Islam, A.R.M.T. Ali, M.M. Al Bakky, A. Ahmed, S. Ibrahim, K.A. Al-Qthanin, R.N. Idris, A.M.	Marine Pollution Bulletin
Soil contamination and health risk assessment at coastal Upazilas of the Bangladesh: a case study	Kader Arafin, S.A. Meraz, M.M. Abdo, H.G. Rahman Sobuz, M.H. Meraz, M.M. Abedin, M.J. Ferdous, J. Fazlul Hoque, A.K.M. Almohamad, H. Abdullah Al Dughairi, A. Albanai, J.A.	Environmental Pollutants and Bioavailability
Plastic, Plastic Pollution and Plastic Recycling: An Overview in Bangladesh Perspective	Babu, K.-E.-K.	Indian Journal of Environmental Protection
The presence of toxic heavy metals in tuna fishes from Laccadive sea and concomitant health risk	Nadhiya, A. Khandaker, M.U. Mahmud, S. Abdullah, W.H.	Radiation Protection Dosimetry
Spatiotemporal trends and characteristics of microplastic contamination in a large river-dominated estuary	Rakib, M.R.J. Al Nahian, S. Madadi, R. Haider, S.M.B. De-La-Torre, G.E. Walker, T.R. Jonathan, M.P. Cowger, W. Khandaker, M.U. Idris, A.M.	Environmental Science: Processes and Impacts
Corrigendum to 'Multifaceted role of polyphenols in the treatment and management of neurodegenerative	Islam, F. Islam, M.M. Khan Meem, A.F. Nafady, M.H. Islam, M.R. Akter, A. Mitra,	Chemosphere

diseases' [Chemosphere 307 (2022) 136020] (Chemosphere (2022) 307(P3), (S0045653522025139), (10.1016/j.chemosphere.2022.136020))	S. Alhumaydhi, F.A. Emran, T.B. Khusro, A. Simal-Gandara, J. Eftekhari, A. Karimi, F. Baghayeri, M.	
Trace Gases over Land and Ocean Surfaces of China: Hotspots, Trends, and Source Contributions	Ali, M.A. Wang, Y. Bilal, M. Assiri, M.E. Islam, A.R.M.T. Malafaia, G. Huang, Z. Mhawish, A. Islam, M.N. Qiu, Z. Ahmed, R. Almazroui, M.	Earth Systems and Environment
Real-time dataset of pond water for fish farming using IoT devices	Islam, M.M.	Data in Brief
Impact of River Water Quality on Public Health in Perspective of Asian Rivers: A Case Study of Buriganga River, Bangladesh	Pasha, A.B.M.K. Nur, M.S. Mozumder, S. Parveen, M.	Journal of Environmental and Earth Sciences
Predicting Bangladesh Life Expectancy Using Multiple Depend Features and Regression Models	Tuj Jannat, F. Biplob, K.B.M.B. Bitto, A.K.	Lecture Notes in Electrical Engineering
Coupling of machine learning and remote sensing for soil salinity mapping in coastal area of Bangladesh	Sarkar, S.K. Rudra, R.R. Sohan, A.R. Das, P.C. Ekram, K.M.M. Talukdar, S. Rahman, A. Alam, E. Islam, M.K. Islam, A.R.M.T.	Scientific Reports
Microplastic as an invisible threat to the coral reefs: Sources, toxicity mechanisms, policy intervention, and the way forward	Rahman, M.N. Shozib, S.H. Akter, M.Y. Islam, A.R.M.T. Islam, M.S. Sohel, M.S. Kamaraj, C. Rakib, M.R.J. Idris, A.M. Sarker, A. Malafaia, G.	Journal of Hazardous Materials
Desalination of Seawater Using Reverse Osmosis Method	Talukder, R. Proshad, P.K.	International Exchange and Innovation Conference on Engineering and Sciences
Personal protective equipment-derived pollution during Covid-19 era: A critical review of ecotoxicology impacts, intervention strategies, and future challenges	Hasan, M. Islam, A.R.M.T. Jion, M.M.M.F. Rahman, M.N. Peu, S.D. Das, A. Bari, A.B.M.M. Islam, M.S. Pal, S.C. Islam, A. Choudhury, T.R. Rakib, M.R.J. Idris, A.M. Malafaia, G.	Science of the Total Environment
KGR-Rainfall: Temperature-Based Rainfall Prediction in Bangladesh with Novel KGR Stacking Ensemble	Bitto, A.K. Rubi, M.A. Bijoy, M.H.I. Shuvo, S.D. Das, A. Chowdhury, A.	2023 International Conference on Artificial Intelligence

		and Applications, ICAIA 2023 and Alliance Technology Conference, ATCON-1 2023 - Proceeding
Utilizing fluctuation asymmetry to assess the effects of U-238 radioactivity on the marine ecosystem around the Madras nuclear power plant, India	AL-Sharif, S.A. Chapara, M. El-Taher, A. Salah-Tantawy, A.	Oceanological and Hydrobiological Studies
Effects of microplastic and heavy metals on coral reefs: A new window for analytical research	Islam, M.S. Islam, A.R.M.T. Ismail, Z. Ahmed, M.K. Ali, M.M. Kabir, M.H. Ibrahim, K.A. Al-Qthanin, R.N. Idris, A.M.	Heliyon
Managing the invisible threat of microplastics in marine ecosystems: Lessons from coast of the Bay of Bengal	Mubin, A.-N. Arefin, S. Mia, M.S. Islam, A.R.M.T. Bari, A.B.M.M. Islam, M.S. Ali, M.M. Siddique, M.A.B. Rahman, M.S. Senapathi, V. Idris, A.M. Malafaia, G.	Science of the Total Environment
Monitoring water quality metrics of ponds with IoT sensors and machine learning to predict fish species survival	Islam, M.M. Kashem, M.A. Alyami, S.A. Moni, M.A.	Microprocessors and Microsystems
Environmental petroleomics – Application of ultrahigh-resolution mass spectrometry for molecular-level understanding of the fate of spilled oils	Acter, T. Son, S. Kim, D. Yim, U.H. Barrow, M.P. Shi, Q. Uddin, N. Kim, S.	Trends in Environmental Analytical Chemistry
Pollution trends and ecological risks of heavy metal(loid)s in coastal zones of Bangladesh: A chemometric review	Jannat, J.N. Mia, M.Y. Jion, M.M.M.F. Islam, M.S. Ali, M.M. Siddique, M.A.B. Rakib, M.R.J. Ibrahim, S.M. Pal, S.C. Costache, R. Malafaia, G. Islam, A.R.M.T.	Marine Pollution Bulletin
X-ray fluorescence analysis of coastal sediments of Tamil Nadu with a statistical approach	Karthikayini, S. Hamideen, M.S. Chandrasekaran, A. Khandaker, M.U. Bradley, D.A.	Radiation Physics and Chemistry
Recent developments and mechanistic insights on adsorption technology for micro- and nanoplastics removal in aquatic environments	Adeleye, A.T. Bahar, M.M. Megharaj, M. Rahman, M.M.	Journal of Water Process Engineering

Activities and Initiatives:

DIU Students Triumph at UN FAO Four Betters Art Fest on "Echoes of The Ocean"



Below Water).

DIU's Department of Multimedia & Creative Technology students shone at the United Nations FAO Four Betters Art Fest, winning 1st place with their animated film "Bilin'." Md. Nafis Fuad Auyon and Laiba Jannat led this achievement, while Durjoy Kumar Datta and Asiful Alam were finalists with "Echoes of The Ocean." This success underscores our commitment to Sustainable Development Goal 4 (Quality Education) and SDG 14 (Life

Exploring the Blue Economy: DIU Hosts Plenary Session on Challenges and Opportunities

The Faculty of Business & Entrepreneurship at Daffodil International University (DIU) organized a Plenary Session titled Blue Economy: Challenges & Opportunities. The session addressed the challenges and opportunities within the Blue Economy, featuring



distinguished speakers from academia and government sectors from both Bangladesh and India. Experts highlighted the significance of marine-based economic development and resource utilization while ensuring the protection of ecosystems. Professor Dr. Abhijit Mitra, Director of Research at Techno India University, West Bengal, discussed the impact of urbanization on forests. The session emphasized the role of entrepreneurship in advancing the blue economy for societal benefits, focusing on economic sustainability and resource preservation. Policymakers advocated for collaborative efforts and scientific research to foster sustainable blue economy practices in Bangladesh and India. This initiative supports SDG 14 (Life Below Water) and SDG 8 (Decent Work and Economic Growth), promoting sustainable development and resource management in marine environments.

Turag River Clean Project – 2024



Objectives met:

- Cleared 1000 kg plastic and debris from riverbanks
- Rescued 50 kg floating waste
- Inspired Locals and industries committed to river preservation

Transformation of the polluted water lake at DIU



Current view of the lake:



Previous view of lake:



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification and halt and reverse land degradation and halt biodiversity loss

SDG 15:

Sustainable Development Goal 15 is about "Life on land". One of the 17 Sustainable Development Goals established by the United Nations in 2015, the official wording is: "Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss".

DIU's Contributions and Progress:

Total campus Planted area	188,826 m2
Number of trees planted on campus	5100+
Sustainably farming (vegetable) area on campus (Food)	20+ acres of land
Academic programmes on environmental ecosystem	3
Has a plastic reduction policy	Yes, implementing
Has SOP for hazardous waste handling and disposal	Yes, following
Follows water discharge guidelines	Yes, following

Contributions to Research and Knowledge:

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-15. Below is a highlight of such contribution:

Title	Authors	Publication Source
Unveiling Curvularia tuberculata-induced leaf anomalies in Rhododendron ferrugineum: implications in cultural-ecological conservation and harnessing microbial intervention in socio-economic advancement	Dhar, J. Hazra, A. Patra, R. Kumar, V. Subramaniyan, V. Kumarasamy, V. Mitra, A.K. Sayed, A.A. Aleya, L. El-Demerdash, F.M. Almutairi, M.H. Akash, S. Abdel-Daim, M.M. Kant, A. Dhara, B.	Frontiers in Microbiology
Factors influencing customers' green purchasing intention: evidence from developing country	Chanda, R.C. Isa, S.M. Ahmed, T.	Journal of Science and Technology Policy Management
Anthropogenic drivers induced desertification under changing climate: Issues, policy interventions, and the way forward	Pal, S.C. Chatterjee, U. Chakraborty, R. Roy, P. Chowdhuri, I. Saha, A. Towfiqul Islam, A.R.M. Alam, E. Islam, M.K.	Progress in Disaster Science
Risk assessment and source apportionment for metals in sediments of Kaptai Lake in Bangladesh using individual and	Islam, A.R.M.T. Varol, M. Habib, M.A. Khan, R.	Marine Pollution Bulletin

synergistic indices and a receptor model		
SUSTAINABLE ENTREPRENEURSHIP PRACTICES AS PREDICTOR OF MICRO ENTERPRISES PERFORMANCE IN RURAL CONTEXT: A STRUCTURAL EQUATION MODELLING APPROACH	Hazudin, S.F. Zaki, S.M. Saripin, M.S. Jabar, F.A. Ramayah, T. Adnan, N.I.M.	Journal of Sustainability Science and Management
Coupling of machine learning and remote sensing for soil salinity mapping in coastal area of Bangladesh	Sarkar, S.K. Rudra, R.R. Sohan, A.R. Das, P.C. Ekram, K.M.M. Talukdar, S. Rahman, A. Alam, E. Islam, M.K. Islam, A.R.M.T.	Scientific Reports
Estimation of drought trends and comparison between SPI and SPEI with prediction using machine learning models in Rangpur, Bangladesh	Akter, M.L. Rahman, M.N. Azim, S.A. Rony, M.R.H. Sohel, M.S. Abdo, H.G.	Geology, Ecology, and Landscapes
The role of renewable energy finance in achieving low-carbon growth: contextual evidence from leading renewable energy-investing countries	Siddik, A.B. Khan, S. Khan, U. Yong, L. Murshed, M.	Energy
KGR-Rainfall: Temperature-Based Rainfall Prediction in Bangladesh with Novel KGR Stacking Ensemble	Bitto, A.K. Rubi, M.A. Bijoy, M.H.I. Shuvo, S.D. Das, A. Chowdhury, A.	2023 International Conference on Artificial Intelligence and Applications, ICAIA 2023 and Alliance Technology Conference, ATCON-1 2023 - Proceeding
Artificial Neural Network-Based Land Use-Specific Carbon Patterns and Their Effects on Land Surface Temperature as a Result of the Rohingya Refugee Influx	Sarkar, S.K. Saroar, M.M. Das, P.C. Chakraborty, T. Rudra, R.R. Alam, E. Islam, M.K. Islam, A.R.M.T.	IEEE Access
Remote sensing of air pollution due to forest fires and dust storm over Balochistan (Pakistan)	Tariq, S. Nawaz, H. Mehmood, U. ul Haq, Z. Pata, U.K. Murshed, M.	Atmospheric Pollution Research

Identifying factors affecting irrigation metrics in the Haor basin using integrated Shannon's entropy, fuzzy logic and automatic linear model	Mia, M.Y. Islam, A.R.M.T. Jannat, J.N. Jion, M.M.M.F. Sarker, A. Tokatli, C. Siddique, M.A.B. Ibrahim, S.M. Senapathi, V.	Environmental Research
Biological and green remediation of heavy metal contaminated water and soils: A state-of-the-art review	Sarker, A. Masud, M.A.A. Deepo, D.M. Das, K. Nandi, R. Ansary, M.W.R. Islam, A.R.M.T. Islam, T.	Chemosphere
Ex Situ Catalytic Pyrolysis of Invasive Pennisetum purpureum Grass with Activated Carbon for Upgrading Bio-Oil	Reza, M.S. Afroze, S. Kuterbekov, K. Kabyshev, A. Zh. Bekmyrza, K. Taweekun, J. Ja'afar, F. Saifullah Abu Bakar, M. Azad, A.K. Roy, H. Islam, M.S.	Sustainability (Switzerland)
The role of renewable energy investment in tackling climate change concerns: Environmental policies for achieving SDG-13	He, X. Khan, S. Ozturk, I. Murshed, M.	Sustainable Development
Groundwater level dynamics in a subtropical fan delta region and its future prediction using machine learning tools: Sustainable groundwater restoration	Mahammad, S. Islam, A. Shit, P.K. Towfiqul Islam, A.R.M. Alam, E.	Journal of Hydrology: Regional Studies

Activities and Initiatives:

Green Fest: Planting Roots for a Sustainable Future at DIU

Daffodil International University celebrated "Green Fest: Youthful Roots: Planting Harmony for Tomorrow" in March, emphasizing the importance of tree plantation for climate regulation and environmental sustainability. Key guests, including Kha Ma Harun, Country Director of Pathshala South Asian Media Institute, and Mehreen, President of Women's Federation for World Peace Bangladesh (WFWP-BD), participated alongside DIU's Chairman Sabur Khan and the university's Vice-Chancellor. The event, supported by the Department of Environmental Science and Disaster Management and organized by GO Girl Limited, engaged students in planting mulberry, bumbling



bees, and other eco-friendly activities. The event was a success, fostering a sense of environmental responsibility and community among the participants.

plum, and banana mango trees. This initiative aligns with several UN Sustainable Development Goals (SDGs), including SDG 13 (Climate Action), SDG 15 (Life on Land), and SDG 4 (Quality Education) by raising environmental awareness and promoting sustainability through youth involvement.

DIU Team Triumphs in "Nature Based Future Challenge"

Nazmul Hoque Nayeem, Assistant Professor in the Department of Architecture at DIU, and his team "Terraqueous" secured a top 10 position in the "Nature Based Future Challenge" competition. Their innovative proposal for a future project in Bangladesh won the "Partners Award" on June 13, 2024. The team showcased their vision at the Grand Finals at Wageningen University and Research (WUR), Netherlands, on June 11. This achievement supports SDG 11 (Sustainable Cities and Communities) and SDG 13 (Climate Action). Congratulations to the team!



PEER Asia Forum Organized by USAID and NASEM in Thailand



Professor Dr. A.B.M. Kamal Pasha, Head of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the PEER Asia forum, held in Bangkok, Thailand, from May 20-22, 2024. Organized by USAID and the National Academies of Sciences, Engineering, and Medicine (NASEM), the forum provided a platform for Dr. Pasha to present findings from his collaborative project, "Unmanned Aerial Systems-Based Assessment of Tree Cover and Deforestation Dynamics in Bangladesh." His research, conducted under the theme of Environmental Monitoring and Ecosystem Services, utilized UAVs (drones) for cost-effective, high-precision imaging of forest canopies in the Sal and Sundarbans forests. The project's use of UAVs to generate geo-referenced canopy data exemplifies innovative environmental monitoring practices, aligning with SDG 15 (Life on Land).

International Training on Sustainable Land Management: Principles, Practices, and Application in India

Dr. Mahfuza Parveen, Associate Professor of ESDM at DIU, participated in a five-day international training on "Sustainable Land



Management: Principles, Practices, and Application," held from March 6-10, 2024. The training, which included 19 participants from 12 countries, focused on addressing land degradation and promoting ecosystem health, with an emphasis on achieving the Sustainable Development Goals (SDGs). Dr. Parveen contributed her insights on sustainable land management practices and SDG alignment. The event featured resource persons from four countries and covered a wide range of topics, including policy frameworks, practical applications, and case studies. Participants also visited restoration sites, observing innovative land restoration techniques and practices in India. The program reinforced the global commitment to sustainable land management, aligning with SDG 15 (Life on Land).

Tree Plantation and Sustainable Land Management Initiatives by DIU

Which focuses on protecting, restoring, and promoting sustainable use of terrestrial ecosystems. SDG 15 aims to halt deforestation, restore degraded forests, and increase afforestation and reforestation globally.

Plantation efforts contribute to:

- **Target 15.1:** Sustainable management and restoration of forests.
- **Target 15.2:** Halting deforestation and increasing afforestation and reforestation.
- **Target 15.3:** Restoring degraded land and combating desertification.

By planting trees and restoring forests, plantation activities help preserve biodiversity, combat climate change, and ensure sustainable land management, aligning closely with the objectives of SDG 15. Some activities are given below:

1. Tree Plantation Program (BURO Bangladesh & Dept. Of Agricultural Science, DIU)



2. As part of our commitment to a greener future, Daffodil International University distributed 1,100 plants to the Birulia Union community today.



3. Tree Plantation at Agricultural Field Lab 2. 12 May



4. Set up of 3 field lasb and 1 germplasm center

Enhancing Sustainability: DIU Launches Tree Plantation Initiative with New Lychee Garden

On May 12, 2024, the Department of Agricultural Science at Daffodil International University (DIU) inaugurated its Tree Plantation Initiative, including the establishment of the Lychee Garden, also known as Agriculture Laboratory-2. This initiative represents a significant advancement in environmental sustainability and research promotion. Led by Dr. Nasar U Ahmed and chaired by Dr. Mohammad Abdul Rahim, the event was honored by notable guests,



including Professor Mahfuzul Bari, Vice Chancellor of Jessore University. Faculty, staff, and students actively participated in the tree planting ceremony, dedicating trees in their names. This initiative aligns with SDG 13 (Climate Action) and SDG 15 (Life on Land), supporting environmental conservation and promoting sustainable practices in agricultural research.

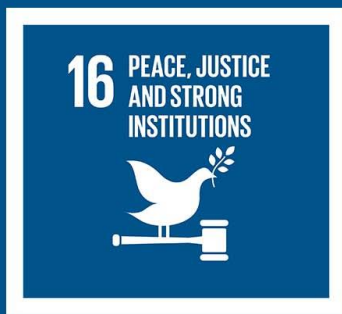
Promoting Sustainability: DIU's "Go Green" Event Highlights Tree Plantation and Sustainable Tourism

The Department of Tourism & Hospitality Management at Daffodil International University (DIU) organized the "Go Green" event under the course "Sustainable Tourism" to raise awareness about tree plantation and climate change. This initiative encouraged students from the 21st, 22nd, and 23rd batches to engage in sustainability practices by planting various trees, including Neem, Almond, Shonali, and Kamini. The event aimed to educate students on the critical role of tree planting and sustainable tourism in combating climate change and promoting responsible travel. This program supports SDG 13 (Climate Action) and SDG 15 (Life on Land), emphasizing environmental stewardship and sustainable practices.



DIU Green Campus, a sanctuary for animals: ensuring safe Life on Land





Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

SDG 16

Sustainable Development Goal 16 is one of the 17 Sustainable Development Goals established by the United Nations in 2015, the official wording is: "Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels"

DIU's Contributions and Progress:

Proportion of students in Law	3%
Proportion of graduates in law	2.5%
Publication of Academic Journal: DIU Journal of Humanities and Social Sciences	1 issue
Elected representation on Governing Body	Ensured Faculty and Employee representation in the Governing body Director, Students Affairs represents students in the Governing body
Students Association (foreign)	Yes (2)
Engagement of local stakeholders	Yes
Anti-Bribery & corruption policy	Yes, following
Academic freedom	Yes
Outreach and education for upskilling & capacity building	Yes

Contribution to Research and Knowledge

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-16. Below is a highlight of such contribution:

Title	Authors	Publication Source
Print media coverage of child maltreatment in Bangladesh: A content analysis	Haque, M.A. Anik, A.I. Azim, S. Ibne Towhid, M.I. Ratan, Z.A. Rahman, M.G.	Journal of Family Trauma, Child Custody and Child Development
Mapping out the vulnerabilities of migrant women in the informal sector: A qualitative investigation in Dhaka city	Sifullah, M.K. Sohel, M.S. Hossain Sarker, M.F. Islam, M. Ahmad, M. Rahman, M.M.	Heliyon

A Study of Cyber Bullying Classification Using Social Media and Textual Analysis Based on Machine Learning Approches	Rahman Aronno, M.S. Zumma, M.T. Prodhan, R. Zohora, F.T. Sakib, N. Tahmiduzzaman, K.B.M.	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023
Clientelism and Subservience in Organizational Behaviour and Professional Practice	Nekmahmud, M. Patwary, M.A.	Global Business Review
Is the digital security act 2018 sufficient to avoid cyberbullying in Bangladesh? A quantitative study on young women from generation-z of Dhaka city	Mahmud, A. Sweety, J.B. Hossain, A. Husin, M.H.	Computers in Human Behavior Reports
An approach to Arduino Uno-based smart car parking system	Zumma, M.T. Tahmiduzzaman, K.B.M. Khan, R. Rahman, M. Suhaeel, A.A. Ahmed, M.F.	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023
The 2022 dengue outbreak in Bangladesh: hypotheses for the late resurgence of cases and fatalities	Haider, N. Hasan, M.N. Khalil, I. Tonge, D. Hegde, S. Chowdhury, M.A.B. Rahman, M. Khan, M.H. Ansumana, R. Zumla, A. Uddin, M.J.	Journal of Medical Entomology
Environmental uncertainty and digital technologies corporate in shaping corporate green behavior and tax avoidance	Ao, X.-Y. Ong, T.S. Aprile, R. Di Vaio, A.	Scientific Reports
Nexus of workplace incivility, workplace violence and turnover intentions: a mediation study through job burnout	Aman-Ullah, A. Ali, A. Ariza-Montes, A. Mehmood, W. Saraih, U.N.	Kybernetes
A Novel Front Door Security (FDS) Algorithm Using GoogleNet-BiLSTM Hybridization	Paula, L.P.O. Faruqui, N. Mahmud, I. Whaiduzzaman, M. Hawkinson, E.C. Trivedi, S.	IEEE Access
Greenhouse gas emission, GDP, tertiary education, and rule of law: A comparative study between high-income and lower-middle income countries	Furkan, H.B. Rakibul Hasan, K.M. Uddin, M.J.	Heliyon
Dark tetrad of personality, cyberbullying, and cybertrolling among young adults	Alavi, M. Latif, A.A. Ramayah, T. Tan, J.Y.	Current Psychology

Cyber Protection & Awareness For Females in Bangladesh	Hamim, M.A. Jahan Tasnova, I. Mim, S.S. Ferdous Khan, S. Tanmoy, F.M.	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023
Determinants of financial inclusion in South Asia: The moderating and mediating roles of internal conflict settlement	Murshed, M. Ahmed, R. Al-Tal, R.M. Kumpamool, C. Vetchagool, W. Avarado, R.	Research in International Business and Finance
A Survey on Shared Perceptions, Help Seeking Patterns and Awareness of Cyber Bullying Among Bangladeshi Citizens	Jony, M.D.M.I. Boshra, S.J. Islam, M.D.K. Rahman, M. Rahman, M. Shahriar, M.A.	2023 IEEE International Conference on Blockchain and Distributed Systems Security, ICBDS 2023
Breaking the Cycle of Injustice: Investigating Restorative Justice Solutions for Street Begging Children in Dhaka City, Bangladesh through a Comprehensive Socio-Legal Analysis	Haque, S.M.S. Chakrabarty, S.P.	Indian Journal of Law and Justice
Impact of Social and Institutional Indicators on the Homicide Rate in Ecuador: An Analysis Using Advanced Time Series Techniques	Vásquez, A. Alvarado, R. Tillaguango, B. Işık, C. Murshed, M.	Social Indicators Research
Climate Change and Aging Health in Developing Countries	Sarkar, S.M. Dhar, B.K. Fahlevi, M. Ahmed, S. Hossain, M.J. Rahman, M.M. Gazi, M.A.I. Rajamani, R.	Global Challenges
Nexuses between rent of natural resources, economic complexity, and technological innovation: The roles of GDP, human capital and civil liberties	Alvarado, R. Murshed, M. Cifuentes-Faura, J. Işık, C. Razib Hossain, M. Tillaguango, B.	Resources Policy
Prevalence of depression and its associated factors among undergraduate admission candidates in Bangladesh: A nation-wide cross-sectional study	Siddik, M.A.B. Hasan, M.N. Mahmud, A. Munmun, M.S. Milad, M.H. Ali, A. Ahmed, Z. Uddin, M.J.	PLoS ONE
Prevalence and determinants of physical violence against doctors in Bangladeshi tertiary care hospitals	Shahjalal, M. Alam, M.M. Khan, M.N.A. Sultana, A. Zaman, S. Hossain, A. Hawlader, M.D.H.	Human Resources for Health

Activities and Initiatives:

Awareness Session for World Suicide Prevention Day 2023

On September 11, 2023, the Psychological Service Unit of DIU's Office of the Director of Students' Affairs hosted an awareness session titled "Creating a Supportive Campus Community" for World Suicide Prevention Day. This initiative, supporting SDG 3 (Good Health and Well-Being), aimed to foster mental health awareness and build a supportive environment on campus.



Policy Dialogue: Democracy on Campus – Youth Preparations & Expectations

As part of the “Amio Jitte Chai” DIUCD Debate Festival 2024, The DIU Debating Club organized a special dialogue on “Policy Dialogue: Democracy on Campus – Youth Preparations & Expectations”. This insightful dialogue was held at Daffodil International University Campus (supported by Democracy International and USAID) with the presence of esteemed panelists and moderators from the popular local TV channels. Distinguished speakers, including Manzur Al Matin, Roksana Anzuman Nicole, Arif Hossain, and Jannatul Ferdous, contributed to the policy dialogue, moderated by Mahfuzur Rahman Mishu. They discussed the present democratic practices at educational institutions and way to improve and strengthen it further.



DIU Supports "Bangladesh Decides: The Youth Speaks" Event

DIU's Voluntary Service Club provided support at the "Bangladesh Decides: The Youth Speaks" event, hosted by HerNet Foundation and the European Union. This initiative, held at DIU, underscores our commitment to SDG 16 (Peace, Justice, and Strong Institutions) by fostering youth engagement and dialogue.



DaffodilMUN'23 Conference



DaffodilMUN'23, held on October 26-27, 2023, successfully united students from 25 universities, 4 schools, and various colleges for debates, diplomacy, and negotiations. This event promotes SDG 16 (Peace, Justice, and Strong Institutions) by fostering dialogue and international understanding.

International Day of Peace 2023 at DIU

Daffodil International University observed International Day of Peace 2023 with the theme “Actions for Peace: Our Ambition for the Global Goals.” The event, organized by YCoalition International and the Department of Law, DIU, emphasized SDG 16 (Peace, Justice, and Strong Institutions) and aimed to promote global peace initiatives.



DIUDC with Support of Democracy International Organized National Debate Festival 2024



Amio Jitte Chai - DIUDC National Debate Festival 2024 was held at Daffodil Smart City. This exciting 3-day event, brings together 64 debate teams from schools and universities across Bangladesh. Participants will engage in

debates on crucial national issues, cultural performances, and workshops, all aimed at empowering youth and promoting democratic values. With the support of **Democracy International** and key speakers from civil society, this festival promises to inspire and shape the voices of tomorrow.

Exploring Media Innovation: DIU Hosts Panel Discussion on Content Creation from a Bangladeshi Perspective

The Department of Journalism, Media and Communication at Daffodil International University (DIU) organized a panel discussion titled "Content Creation from a Bangladeshi Perspective" at JMC Media Buzz. Esteemed guests from Bangladeshi media, including Shakeel Anwar, CEO of MRDI Training Institute, TV journalist Mr. Mohsin Ul Hakim, and news anchor Nazia Khanom Kona, shared their insights on the evolving media landscape. The event also honored the winners of the National 100 Second Content Creation Competition. Students engaged in discussions about content creation, explored future opportunities, and learned strategies for effective audience engagement. This event supports SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure), promoting media literacy and innovation in content creation.



DIU Chairman at Global Education Summit 2023



Dr. Md. Sabur Khan, Founder and Chairman of Daffodil International University and President of AUAP, participated in the Global Education Summit 2023 hosted by Chandigarh University. The summit, themed "One Earth, One Family, One Future," underscores SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals), focusing on global collaboration for a sustainable future.

DIU Extends Educational Support: Full Scholarships for 50 Female Students from Palestine

Daffodil International University (DIU) has generously offered full scholarships to 50 female students from Gaza, Palestine, underscoring its commitment to global education and empowerment. The announcement was made during the visit of H.E. Mr. Yousef S.Y. Ramadan, Ambassador to the Government of the People's Republic of Bangladesh from the State of Palestine, who held discussions with the university's top management. This initiative reflects DIU's dedication to supporting education for underrepresented communities and fostering international collaboration. The scholarship program aligns with SDG 4 (Quality Education) and SDG 5 (Gender Equality), promoting access to education and gender equality on a global scale.



Be A Media Star: Empowering Future Media Professionals



The "Be A Media Star" program nurtures aspiring media professionals by providing a platform for students to showcase their skills in reporting, photography, videography, and content creation, directly contributing to SDG 4: Quality Education. This hands-on experience empowers students with practical knowledge and confidence essential for their professional growth. The program also emphasizes SDG 5: Gender Equality

by ensuring equal participation and opportunities for all genders, promoting diversity in media representation. Additionally, it aligns with SDG 10: Reduced Inequalities by offering students from diverse backgrounds an equal chance to demonstrate their abilities, fostering an inclusive environment. Through tasks that document stories on climate change and social justice, the program indirectly supports SDG 13: Climate Action and SDG 16: Peace, Justice, and Strong Institutions by promoting awareness and advocacy through media. Ultimately, "Be A Media Star" equips students with the skills needed to become responsible media professionals, contributing to sustainable development.

67th Jamboree on the Air (JOTA) and 28th Jamboree on the Internet (JOTI)

67th Jamboree on the Air (JOTA) and 28th Jamboree on the Internet (JOTI) was held at Daffodil International University, organized by Bangladesh Scouts Air Region and DIU Air Rover Scout Group. Over 200 scouts and 20 scout leaders participated in this global digital and radio scouting event, showcasing their skills in online challenges, radio communication, and innovative activities.



Scouts from 178 countries joined this world-renowned event, gaining valuable experience in technology and international friendship.

Collaboration with JCI Barishal (A Youth Association) on Journalism Fellowship

JCI Barishal and the Department of Journalism, Media and Communication, DIU, have recently signed a memorandum of understanding (MoU) in order to foster a journalism fellowship project titled 'Barishal Voices: Empowering Regional Journalism' in the coming days.

Empowering Future News Presenters: A Skill Development Workshop



HRDI (Human Resource Development Institute) recently organized a workshop titled "Get One Step Closer to Becoming a News Presenter" at Aminul Islam Conference Room, Daffodil Smart City (DSC). The workshop featured Ms. Tahsina Yasmin, a senior news presenter at SATV, who shared invaluable insights on building a successful career in news presentation. Participants had the opportunity to enhance their vocal skills, receive specific feedback on news reading, and explore various presentation techniques. This event aligns with SDG 4 (Quality Education) by providing skill development opportunities to empower individuals in pursuing careers in news presentation, contributing to their personal growth and the media industry.

Advancing Sustainable Development Goals Through Faculty Participation

Faculty engagement in cross-sectoral dialogues is vital for promoting the Sustainable Development Goals (SDGs) in the Department of Journalism, Media, and Communication. Mr. Aftab Hossain, Assistant Professor and Head of the Department, participated in the International Faculty Exchange Program at Chandigarh University, teaching courses that support SDG 4: Quality Education. His involvement in the Erasmus Exchange Program in Europe further enhances educational quality. Similarly, Dr. Abdul Kabil Khan, Associate Professor, attended the International Association of Facilitators (IAF) Seminar on Freedom of the Press, contributing to SDG 16: Peace, Justice, and Strong Institutions, while promoting ethical journalism through Mobile Journalism (MoJo). As local president of Junior Chamber International (JCI) Barishal, he is dedicated to SDG 11: Sustainable Cities and Communities. Together, these faculty efforts demonstrate the department's commitment to advancing global sustainability and justice initiatives.



Integrating Public Health and Law Enforcement: Exploring Collaboration with Police Staff College

We are exploring collaboration opportunities with Dr. Mohammad Shahjahan, Additional Deputy Inspector General of Police and Director of Research and Publication at the Police Staff College. This potential partnership aims to integrate public health research with law enforcement initiatives, enhancing both community health and public safety. a. This potential partnership supports SDG 3 (Good Health and Well-being) by aiming to enhance community health. It also aligns with SDG 16 (Peace, Justice, and Strong Institutions) through the integration of public health research with law enforcement initiatives, which can improve public safety and overall well-being.



Promoting Campus Safety: DIU Hosts Awareness Session on Preventing Sexual Harassment



Daffodil International University (DIU) organized an Awareness Session on the Prevention of Sexual Harassment, facilitated by Professor Dr. Mehtab Khanam, a distinguished psychotherapist from Bangladesh. The session, conducted by the Complaint Committee to Prevent Sexual Harassment, explored how childhood experiences and attachment styles influence adult dating behavior. This critical discussion aimed to raise awareness and foster understanding, contributing to the creation of a safer and more respectful campus environment. The initiative aligns with SDG 5 (Gender Equality) and SDG 16 (Peace, Justice, and Strong Institutions), promoting safety and respect within the academic community.

Celebrating Legal Excellence: DIU Honors New Advocates at Grand Reception

The Department of Law at Daffodil International University (DIU) hosted a grand reception to celebrate 87 new advocates who successfully passed the Bar Council examination. Former Chief Justice Hasan Foez Siddique, the chief guest, commended the graduates for their achievement in passing a rigorous exam and highlighted the importance of lifelong learning and continuous practice in their legal careers. He praised the university's campus and encouraged the new advocates to aim for prestigious roles



such as judges and attorney generals. Additional Registrar K M Aminul Islam of the Bangladesh Supreme Court also attended as a special guest. This event supports SDG 16 (Peace, Justice, and Strong Institutions), emphasizing the importance of legal education and professional development in fostering a just society.

National Children's Day Commemorated at DIU



On March 17, 2024, Daffodil International University held a discussion meeting to mark National Children's Day and the birth anniversary of Bangabandhu Sheikh Mujibur Rahman. The event focused on celebrating the legacy of the Father of the Nation, promoting patriotism, and inspiring students with his ideals, aligning with SDG 16 (Peace, Justice, and Strong Institutions) by fostering national pride and civic responsibility.

Historic Collaboration Advances Legal Support in Bangladesh

Honorable Chief Justice Mr. Obaidul Hassan witnessed a milestone in legal support at DIU. Team Lex.AI from the Department of CSE, in partnership with the Department of Law, showcased their project progress, contributing to SDG 16 (Peace, Justice, and Strong Institutions).





Strengthen the means of implementation and revitalize the global partnership for sustainable development

SDG 17

Sustainable Development Goal 17 is about "partnerships for the goals." One of the 17 Sustainable Development Goals established by the United Nations in 2015, the official wording is: "Strengthen the means of implementation and revitalize the global partnership for sustainable development".

DIU's Contributions and Progress:

Total Number of Partnership with local and foreign universities since inception	450+
Publications of Academic Journal: DIU Journal of Science & IT	2 Issues
Number of International Mega Event Organized	4
Participation in national & international Cross Sectoral Dialogues/Conferences	50+
Number of Educational Outreach Programs	15+
Number of academic courses related to sustainability	260+

Contribution to Research and Knowledge

The researchers of Daffodil International University conducted research and subsequently published the research results in reputed journals that contributed to the knowledge domain of SDG-17. Below is a highlight of such contribution:

Title	Authors	Publication Source
THE MODERATOR EFFECTS OF OWNER-MANAGER KNOWLEDGE ON THE INTENTION TO ADOPT ISLAMIC FINANCING FACILITIES IN MALAYSIA	Soha, H.M., Junoh, M.Z.M., Ahmad, T.S., Islam, M.A.	ISRA International Journal of Islamic Finance
A comprehensive review of food waste valorization for the sustainable management of global food waste	Sarker, A., Ahmmed, R., Ahsan, S.M., ...Ghosh, M.K., Nandi, R.	Sustainable Food Technology
Does higher energy efficiency growth homogeneously affect carbon emission growth rate across developing Sub-Saharan African nations? The importance of utilizing clean energy	Zhou, T., Haque, A., Alam, M.M., ...Khudoykulov, K., Haseeb, M.	Environmental science and pollution research international
Quality of Sleep and Associated Factors Among Healthcare Providers During Covid-19	Ching, S.M., Ismail, I.Z.B., Cheong, A.T., ...Bukhary, N.I., Chiam, R.W.L.	Malaysian Journal of Medicine

in Malaysia: A Web-based Cross-sectional Study		and Health Sciences
Rural-urban disparities in nutritional status among ever-married women in Bangladesh: A Blinder-Oaxaca decomposition approach	Hossain, M.I., Habib, M.J., Zinia, F.A., ...Methun, M.I. H., Haq, I.	PLoS ONE
Environmental uncertainty and digital technologies corporate in shaping corporate green behavior and tax avoidance	Ao, X., Tze San, O., Aprile, R., Di Vaio, A.	Scientific Reports
Examining Performance of Islamic Banks in Bangladesh Using Stochastic Frontier Analysis and Maqasid Model	Nabi, M.G., Islam, M.A., Rahman, S., Barata, F.A.	Management and Accounting Review
Sustainability performance of multinational companies in Malaysia	Fazal, S.A., Al Mamun, A., Wahab, S.A., Mohiuddin, M.	Transnational Corporations Review
Defining green innovation, its impact, and cycle – A literature analysis	Cisneros Chavira, P., Shamsuzzoha, A., Kuusniemi, H., Jovanovski, B.	Cleaner Engineering and Technology
Assessment of the potential radiation hazards posed by Nubian sandstone, Egypt	Gawad, A.E.A., Eliwa, H.A., Masoud, M.S., Khandaker, M.U., Hanfi, M.Y.	Scientific Reports
Neuropharmacological potential of honokiol and its derivatives from Chinese herb Magnolia species: understandings from therapeutic viewpoint	Faysal, M., Khan, J., Zehravi, M., ...Emran, T.B., Wilairatana, P.	Chinese Medicine (United Kingdom)
Run! This road has no ending! A systematic review of PLS-SEM application in strategic management research among developing nations	Shela, V., Ramayah, T., Aravindan, K.L., Ahmad, N.H., Alzahrani, A.I.	Heliyon

An empirical re-investigation for verifying the pollution haven hypothesis concerning the foreign direct investment-carbon intensity nexus: Contextual evidence from BRICS	Murshed, M.	Environmental Challenges
Anthropogenic drivers induced desertification under changing climate: Issues, policy interventions, and the way forward	Pal, S.C., Chatterjee, U., Chakraborty, R., ...Alam, E., Islam, M.K.	Progress in Disaster Science
Trace Gases over Land and Ocean Surfaces of China: Hotspots, Trends, and Source Contributions	Ali, M.A., Wang, Y., Bilal, M., ...Ahmed, R., Almazroui, M.	Earth Systems and Environment
Contamination and ecological risk assessment of Cr, As, Cd and Pb in water and sediment of the southeastern Bay of Bengal coast in a developing country	Islam, M.S., Islam, M.T., Antu, U.B., ...Al-Qathanin, R.N., Idris, A.M.	Marine Pollution Bulletin
Variability in episodic precipitation concentration in the Asian megacity of Dhaka, Bangladesh	Mondol, M.A.H., Habib, M.A., Kabir, F., ...Kamruzzaman, M., Siddiki, U.R.	Meteorology and Atmospheric Physics
Can financing technological development programs mitigate mineral resource consumption-related environmental problems faced by Sub-Saharan African nations?	Gao, Y., Murshed, M., Ozturk, I.T., ...Siddik, A.B., Alam, M.M.	Resources Policy
An extensive real-world in field tomato image dataset involving maturity classification and recognition of fresh and defect tomatoes	Khatun, T., Razzak, A., Islam, M.R., Uddin, M.S.	Data in Brief

Coupling of machine learning and remote sensing for soil salinity mapping in coastal area of Bangladesh	Sarkar, S.K., Rudra, R.R., Sohan, A.R., ...Islam, M.K., ISLAM, A.R.M.T.	Scientific Reports
Can minimizing risk exposures help in inhibiting carbon footprints? The environmental repercussions of international trade and clean energy	Shi, C., Murshed, M., Alam, M.M., ...Balsalobre-Lorente, D., Khudoykulov, K.	Journal of Environmental Management
Millets as smart future food with essential phytonutrients for promoting health	Saleem, S., Mushtaq, N.U., Shah, W.H., ...Tahir, I., Rehman, R.U.	Journal of Food Composition and Analysis
Study of radium content and radon exhalation rates in raw building materials used in southern India	Soniya, S.R., Jojo, P.J., Khandaker, M.U.	Physics Open
Impact on mental health due to COVID-19 pandemic: A cross-sectional study in Bangladesh	Pathan, R.K., Biswas, M., Yasmin, S., ...Iqbal Faruque, M.R., Sarker, M.M.	Clinical eHealth
Heterogeneous effects of energy productivity improvement on consumption-based carbon footprints in developed and developing countries: The relevance of improving institutional quality	Yang, J.H., Huang, H., Sanyal, S., ...Alam, M.M., Murshed, M.	Gondwana Research
Assessment of soil heavy metal pollution and associated ecological risk of agriculture dominated mid-channel bars in a subtropical river basin	Hoque, M.M., Islam, A.H.M.H., ISLAM, A.R.M.T., ...Mahammad, S., Alam, E.	Scientific Reports

Activities and Initiatives

17.1 Contribution to Policy Inputs

Policy Dialogue: Democracy on Campus – Youth Preparations & Expectations

As part of the “Amio Jitte Chai” DIUC Debate Festival 2024, The DIU Debating Club organized a special dialogue on “Policy Dialogue: Democracy on Campus – Youth Preparations & Expectations”. This insightful dialogue was held at Daffodil International University Campus (supported by Democracy International and USAID) with the presence of esteemed panelists and moderators from the popular local TV channels. Distinguished speakers, including Manzur Al Matin, Roksana Anzuman Nicole, Arif Hossain, and Jannatul Ferdous, contributed to the policy dialogue, moderated by Mahfuzur Rahman Mishu. They discussed the present democratic practices at educational institutions and way to improve and strengthen it further.



Policy Discussion: “Pre-COP29: Advancing Sustainable Living & Green Economy for Climate Action”



DIU in collaboration with the Global Law Thinkers Society (GLTS), organized the “Pre-COP29 Policy Discussion: Advancing Sustainable Living & Green Economy for Climate Action” at Daffodil Smart City. It brought together academics, representatives from civil society organizations (CSOs), NGOs, government officials, and other stakeholders to discuss Bangladesh’s role and contributions to global climate action in preparation for the 29th Conference of the Parties (COP29), scheduled for November 2024 in Baku, Azerbaijan. DIU’s representatives along with GLTS will attend and deliver

presentation in the COP29 session to address policy issues on climate loss and damage. With nearly 200 countries participating, COP29 serves as a pivotal platform for assessing global progress on climate goals, negotiating commitments, and fostering international cooperation to address climate change.

Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh: A Workshop by UNICEF and ESDO



UNICEF and the Environment and Social Development Organization (ESDO) organized the workshop "Landscaping of Existing Legislation, Policies, and Standards on Lead Poisoning in Bangladesh," which focused on evaluating the country's current framework for addressing lead poisoning. Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, actively participated in discussions on the status of lead poisoning in Bangladesh, highlighting gaps in the existing legal policies.

17.2 Contribution to SDG Dialogues/Conferences Involving Government/NGO

COLLABORATION BETWEEN DIU & BARI



Daffodil International University (DIU) and BARI- Bangladesh Agricultural Research Institute have signed a groundbreaking Memorandum of Understanding (MoU). This partnership aims to advance agricultural research, technology transfer, and innovation.

Collaboration in Preventive Oncology with Gonoshasthaya Community-Based Cancer Hospital

Prof. Dr. Hafiz T. A. Khan, International Advisor, and Prof. Dr. ABM Alauddin Chowdhury, Head of the Department of Public Health at DIU, visited the country's first Preventive Oncology Department at Gonoshasthaya Community-Based Cancer Hospital and Research Centre to explore collaboration.



Collaboration with GLTS for Combating Climate Change



Daffodil International University (DIU) and the Global Law Thinkers Society (GLTS) have formed a strategic partnership aimed at addressing some of the world's most pressing challenges: climate change, youth leadership, and the advancement of the United Nations Sustainable Development Goals (SDGs). This

collaboration, which focuses on pivotal areas such as climate finance, climate justice, and loss and damage, marks a significant step toward fostering global cooperation and youth-driven action. DIU and GLTS are also preparing to participate in major international climate platforms, including COP29 in Baku, Azerbaijan. This partnership is set to amplify youth leadership on climate change through joint research initiatives, workshops, training, and active participation in both national and international climate forums. A key focus will be their coordinated efforts at UNFCCC COP & SB Conferences, where they will advocate for actionable policies and concrete measures addressing the climate crisis. It will also support broader SDG initiatives, promoting environmental sustainability, peace, justice, and global education.



DIU and National Liver Foundation Collaborate on the NOHep Village Initiative for Hepatitis Prevention

The Department of Public Health at Daffodil International University (DIU) has partnered with the National Liver Foundation of Bangladesh (NLFB) to collaborate on the NOHep Village initiative. This collaboration aims to raise awareness, promote liver health, and prevent hepatitis in communities across Bangladesh. This collaboration aligns

with SDG 3 (Good Health and Well-being) by focusing on raising awareness, promoting liver health, and preventing hepatitis, thereby contributing to better health outcomes and disease prevention in communities across Bangladesh.

Collaboration with Adaptation Research Alliance (ARA), UKAid Project on Saving Mothers, Protecting the Womb

The "Saving Mothers, Protecting the Womb" is an innovative and unique action research project undertaken by Daffodil International University funded by Adaptation Research Alliance (ARA), UKAID. It addresses



a critical issue at the intersection of climate change, public health, gender and technology, offering a holistic approach to improving the well-being of marginalized coastal pregnant women in Bangladesh. The project installs a low-cost solar panel rotator called ‘SolarAchieve’ that harnesses solar energy efficiently by combining gravity to produce safe, clean drinking water. The innovation lies in its simplicity and affordability, as users can assemble it using readily available local materials like wood or bamboo. The SolarAchieve is regarded as a low-cost, sustainable solution to the water salinity problem. This unique project recognizes the impact of climate change beyond environmental concerns and directly affects maternal health. Its outcomes and enhanced community resilience serves as indicators of the project's effectiveness.



marginalized communities.

Free Healthcare Initiative for underprivileged individuals by Daffodil Bandhushobha

As part of Prothom Alo's 25th anniversary celebrations, Daffodil Bandhushobha provided free healthcare to over 200 underprivileged individuals in Ashulia, Dhaka. This initiative supports SDG 3 (Good Health and Well-Being) by enhancing access to medical services for

Collaboration with Bangladesh Computer Council (BCC)

Daffodil International University (DIU) and Bangladesh Computer Council (BCC) signed an MoU to strengthen ICT-based training and skill development in Bangladesh. This partnership will provide students and BCC officers with professional training, research opportunities, workshops, and more—gearing them up for local and global job markets and preparing them for the challenges of the 4th Industrial Revolution. Here’s to a future of growth, innovation, and skilled workforce.



Strengthening Global Ties: DIU and AIT Sign MoU for Academic and Research Collaboration



On April 25, 2024, Daffodil International University (DIU), Bangladesh, and the Asian Institute of Technology (AIT), Bangkok, Thailand, signed a Memorandum of Understanding (MoU) at AIT’s campus. The agreement was signed by Dr. Md. Sabur Khan, Founder & Chairman of DIU, and Prof. Kazuo Yamamoto, President of AIT, in the presence of

professors and officials from both institutions. The MoU aims to extend collaboration in various areas, including student exchange, faculty visits, Master's/PhD partnership programs, joint research projects, Summer/Winter Programs, scholarships, and research activities. Established in 1959, AIT is renowned as a leading international institute focused on engineering, technology, and sustainable development in the Asia-Pacific region. This partnership aligns with SDG 4 (Quality Education), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 17 (Partnerships for the Goals), fostering global academic cooperation and sustainable development initiatives.

17.3 International collaboration on gathering or measuring data for the SDGs

DIU Students Joined COP29 Simulation 2024 in Egypt

DIU students Fatema Tuj Juhura Sadia, and Md Tahmid Chowdhury represented Bangladesh at COP29 Simulation 2024 hosted by The British University in Egypt in-collaboration with UNDP Egypt and ADA University from 4 to 10 October, 2024. Their hard work, research and Online Capacity-Building Programmes allowed them to receive fully-funded scholarships to attend this global event of many dialogues & sessions focusing on the SDGs, diplomacy and Climate Action.



PEER Asia Forum Organized by USAID and NASEM in Thailand



Professor Dr. A.B.M. Kamal Pasha, Head of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the PEER Asia forum, held in Bangkok, Thailand, from May 20-22, 2024. Organized by USAID and the National Academies of Sciences, Engineering, and Medicine (NASEM), the forum provided a platform for Dr. Pasha to present findings from his collaborative project, "Unmanned Aerial Systems-Based Assessment of Tree Cover and Deforestation Dynamics in Bangladesh." His research, conducted under the theme of Environmental Monitoring and Ecosystem Services, utilized UAVs (drones) for cost-effective, high-precision imaging of forest canopies in the Sal and Sundarbans forests. The project's use of UAVs to generate geo-referenced

canopy data exemplifies innovative environmental monitoring practices, aligning with SDG 15 (Life on Land) and SDG 13 (Climate Action) by contributing to better forest management and ecosystem protection.

Collaboration with APUB, Pan Asian Group, and Spiral World for Bangladesh Education Forum 2023 in Dubai

The 2nd edition of the Bangladesh Education Forum 2023, organized jointly by APUB, Pan Asian Group, and Spiral World and powered by DIU was held at Crowne Plaza Deira, Dubai, UAE. This event showcased Bangladesh's education system and aimed to build a global network of educators and stakeholders, contributing to SDG 4 (Quality Education) by promoting educational standards and international collaboration. Data related to higher education in Dubai was the major objective of this collaborative effort.



Research Survey (Data) Collaboration with Titas Gas Limited

The Department of Software Engineering of DIU collaborated with Titas Gas Limited to conduct a Customer Satisfaction Survey aimed at gathering insights to enhance service quality. This research aligns with SDG 9: Industry, Innovation, and Infrastructure by promoting the development of resilient infrastructure and fostering innovation within the industry. By identifying areas for improvement based on customer feedback, the survey contributes to optimizing service delivery, ultimately supporting sustainable industrial practices and enhancing customer satisfaction in the energy sector.



17.4 Outreach Collaboration:

Outreach community Programs:



Daffodil International University (DIU) has demonstrated a firm commitment to bridging the gap between academic knowledge and real-world impact, making strides in research that drives sustainable community development. This commitment was recently exemplified through an impact evaluation conducted by a team of DIU faculty members and researchers on the Jeebika I & II projects in Chandpur, Bangladesh on October 2014. The Jeebika projects, - a Livelihoods Enhancement Project, is dedicated to improving the socio-economic stability of vulnerable populations. Through initiatives that empower individuals with financial independence, skill development, and essential resources, the project aims to uplift marginalized communities, helping them build

sustainable and resilient livelihoods. DIU's impact evaluation of the Jeebika project exemplifies the transformative power of grassroots development and community-driven research. Through their assessment, DIU researchers have documented the project's positive effects on income, health, education, and social cohesion, providing valuable insights into how development initiatives can achieve sustainable, long-lasting impact.

Climate Diplomacy Workshop Held at Young Negotiator Programme

Mr. Amir Hamza, Assistant Director of HRDI, represented HRDI as a trainer at this pre-COP event, organized by LCOY Bangladesh and hosted by GAIN. During this 3-day workshop, Mr. Hamza led a session on staying focused on critical environmental issues, preparing young negotiators for high-level climate discussions. HRDI is proud to support initiatives that foster future leaders in climate diplomacy.



DIU and National Liver Foundation Collaborate on the NOhep Village Initiative

The Department of Public Health at Daffodil International University (DIU) has partnered with the National Liver Foundation of Bangladesh (NLFB) to collaborate on the

NOHep Village initiative. This collaboration aims to raise awareness, promote liver health, and prevent hepatitis in communities across Bangladesh. This collaboration also supports SDG 10 (Reduced Inequalities) by working to improve health equity across communities, particularly by addressing and preventing hepatitis in underserved areas, which can reduce health disparities.

17.5 Collaboration on International best practice on tackling the SDGs

International Training on Sustainable Land Management: Principles, Practices, and Application in India

Dr. Mahfuza Parveen, Associate Professor of ESDM at DIU, participated in a five-day international training on "Sustainable Land Management: Principles, Practices, and Application," held from March 6-10, 2024. The training, which included 19 participants from 12 countries, focused on addressing land degradation and promoting ecosystem health,



with an emphasis on achieving the Sustainable Development Goals (SDGs). Dr. Parveen contributed her insights on sustainable land management practices and SDG alignment. The event featured resource persons from four countries and covered a wide range of topics, including policy frameworks, practical applications, and case studies. Participants also visited restoration sites, observing innovative land restoration techniques and practices in India.

DIU Chairman at Global Education Summit 2023

Dr. Md. Sabur Khan, Founder and Chairman of Daffodil International University and President of AUAP, participated in the Global Education Summit 2023 hosted by Chandigarh University. The summit, themed "One Earth, One Family, One Future," underscores SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals), focusing on global collaboration for a sustainable future.



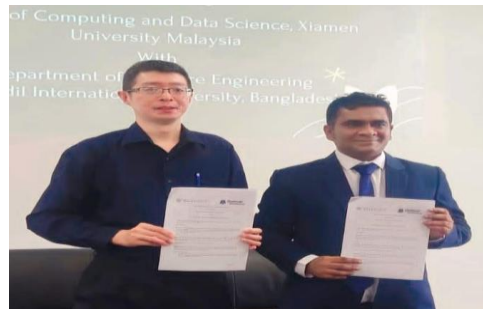
Strengthening Global Education and Research: Collaboration Meeting with Mr. Alain Roy

DIU had a productive collaboration with the Colleges and Institutes Canada. The discussion covered key topics, including the development of mobility programs, collaborative research initiatives, sharing best practices and the International Internship Program with DIU. This meeting supports SDG 4 (Quality Education) by

discussing the development of mobility programs and collaborative research initiatives. It also aligns with SDG 8 (Decent Work and Economic Growth) through the focus on the International Internship Program, which promotes skills development and employment opportunities.

Strengthening Quality Education and Global Partnerships through Collaboration with Multimedia University

On May 2, 2024, the Department of Software Engineering formed a collaboration with Multimedia University, Malaysia, focusing on faculty and student exchanges as well as joint research projects. This partnership aims to enhance academic growth and facilitate cultural exchange while advancing collaborative research efforts in software engineering. By strengthening international partnerships, we contribute to SDG 4: Quality Education through enriched learning opportunities and skills development, and SDG 17: Partnerships for the Goals, emphasizing the significance of global cooperation in achieving sustainable educational outcomes and driving innovation.



Partnerships for the Goals through Collaboration with Xiamen University

On May 2, 2024, the Department of Software Engineering initiated a research collaboration with Xiamen University, Malaysia, focusing on faculty and student exchanges as well as joint research initiatives. This partnership aims to enhance academic and cultural exchange while driving innovative research projects in software engineering and related fields. By fostering international collaboration, we contribute to SDG 17: Partnerships for the Goals, reinforcing the importance of global partnerships in achieving sustainable development objectives and sharing knowledge to address complex challenges in technology and education.

Global Health Research Collaboration: DIU Partners with Experts from Murray State University and Thammasat University

We are pleased to announce a collaboration with esteemed participants, including Professor Dr. Azaher Ali Molla from the Department of Public and Community Health, School of Nursing and Health Professions at Murray State University, USA, and Dr. Shekh Mohammad Altafur Rahman from Thammasat University, Bangkok, Thailand. This



partnership aims to foster joint research initiatives, enhance public health education, and promote knowledge exchange to address global health challenges.

Fostering Strategic Partnerships: DIU and Centurion University Collaborate on Key Sustainable Initiatives

From March 15-19, 2024, a delegation of four members from Centurion University of Technology & Management, India, led by Prof. Vasudeva Venkata Laxmi, Vice President of the university, visited Daffodil International University (DIU). The delegation engaged in a series of meetings and sessions with DIU management, Deans, Heads of Departments, and key officials. Through in-depth discussions, DIU and Centurion University finalized a new partnership to implement best practices and collaborative projects focusing on five key areas: micro-credentials, waste management, textile production, electric vehicles, and advanced wood engineering. This strategic collaboration aligns with SDG 4 (Quality Education), SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production), and SDG 17 (Partnerships for the Goals), promoting sustainable development and innovation across multiple sectors.



Strengthening Partnerships: DIU Visits KIIT and KISS

A 15-member delegation from DIU visited KIIT and KISS in Odisha, India, to enhance their decade-long partnership. Discussions included new initiatives like the India-Bangladesh Study and Cultural Center (IBSCC) and student exchanges. The visit, which aimed at fostering collaboration and sharing best practices, supports SDG 17 (Partnerships for the Goals) by deepening academic ties and mutual learnin

Partnership with Nottingham Trent University for Sharing Best Practices

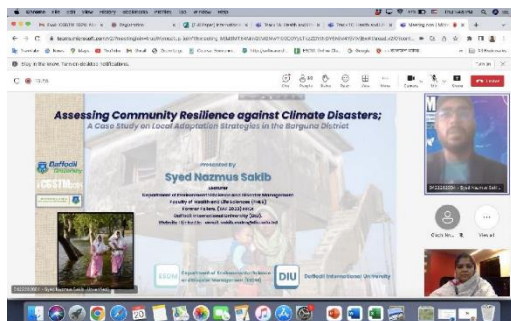


Mansfield Mayor Andy Abrahams.

Daffodil International University (DIU) has partnered with Nottingham Trent University (NTU), marking a significant milestone as one of the first Bangladeshi universities to do so. The agreement facilitates academic, research, and exchange programs, aligning with SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals). The partnership was formalized by DIU Chairman Sabur Khan, NTU Vice Chancellor Prof. Edward Peck, and

DIU Delegation at EAIE Conference 2024: International Best Practice

A 3-member delegation from Daffodil International University represented the institution at Europe’s largest Annual EAIE Conference and Exhibition 2024. This participation aimed to bolster international partnerships and expand DIU’s global network, aligning with SDG 17 (Partnerships for the Goals).



Participation in the 3rd International Conference on Green Sustainable Technology and Management in Malaysia

Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the 3rd International Conference on Green Sustainable Technology and Management (ICGSTM 2024) from June 19-21 in Kuala Lumpur, Malaysia. As one of the keynote speakers in the Health and Life Science track, Dr. Mahfuza, along with seven other presenters from DIU, shared insights on sustainable practices. The conference, co-hosted by DIU, provided a platform for international collaboration, where four presenters from DIU’s ESMD department also contributed.

Dr. Mahfuza Parveen, Associate Professor of the Department of Environmental Science and Disaster Management (ESDM) at DIU, participated in the 3rd International Conference on Green Sustainable Technology and Management (ICGSTM 2024) from June 19-21 in Kuala Lumpur, Malaysia. As one of the keynote speakers in the Health and Life Science track, Dr. Mahfuza, along with seven other presenters from DIU, shared insights on sustainable practices. The conference, co-hosted by DIU, provided a platform for international collaboration, where four presenters from DIU’s ESMD department also contributed.

DIU Chairman Speaks at AUAP Forum on Health in South Korea

Dr. Md. Sabur Khan, President of the Association of Universities of Asia and the Pacific (AUAP) and Founder & Chairman of the Board of Trustees at Daffodil International University, participated in the AUAP Learning and Sharing Forum on Health held in South Korea. Hosted by Daegu



Health College, the forum brought together over 100 participants from 12 countries and 45 universities. Dr. Khan delivered a keynote speech on "Integrating AI into Higher Education," emphasizing the role of artificial intelligence in enhancing academic environments and promoting mental health awareness. The program featured sessions on Medical Technology, Nursing & Rehabilitation, paper presentations, MoU signings, and medical tours. Dr. Khan also chaired the 55th AUAP Executive Board Meeting as part of the event's side activities.



Dr. Md. Sabur Khan, Founder and Chairman of Daffodil International University, has made history as the first Bangladeshi elected Treasurer of International Association of University Presidents (IAUP) for 2027-2030. The announcement came at the IAUP General Assembly in Beijing, with global leaders from 53 countries in attendance.

Sustainability related academic courses at DIU

<https://sustainability4d.daffodilvarsity.edu.bd/educations>

Department of Environment Science and Disaster Management:

<http://esdm.daffodilvarsity.edu.bd/>

Department of Agricultural Science:

<https://daffodilvarsity.edu.bd/department/ags>