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RESEARCH UPDATE 2023

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Editor
Dr. Md Kabirul Islam



Daffodil
International
University



Dedicated to

The top management of DIU for their scholarly advise, and valuable support and the researchers for their tremendous efforts and contributions to knowledge



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Dean, Faculty of Graduate Studies (FGS)



Research is a movement from the known to the unknown, a thirst to add new insights to existing stock of knowledge. It's a voyage of innovation and discovery. The key purpose of research is to search for new knowledge and this new knowledge reinvigorates the foundation of mankind.



EDITORIAL

Dear Readers,

It is with immense pleasure and a sense of accomplishment that we welcome you to the latest edition (vol.2, no. 1) of "Research Update 2023," the annual magazine proudly brought to you by the Faculty of Graduate Studies (FGS) at Daffodil International University (DIU). As we gather once again to celebrate the remarkable strides taken in the world of research and academia, we reflect upon our journey of fostering a robust research culture.

In this edition, we have flourished this magazine with 8 different chapters. In the first chapter, "Building a Strong Research Culture," we delve into the 2 key foundations upon which DIU's research culture has been established. Our second chapter, "DIU Research Publications: Tracing Patterns and Trends," invites you to discover the wealth of knowledge generated by our esteemed researchers. Chapter three, "DIU International Collaboration and Networking," unravels the global connections that DIU has forged over the year 2022. In chapter four, "Pathways to Sustainability: DIU's Contributions to SDGs," we spotlight our dedication to addressing the world's most pressing challenges and discover how DIU is actively contributing to the United Nations Sustainable Development Goals, making a positive impact on society and the environment. Our fifth chapter brings you an insight into the "Funded Research Projects (2022-2023)." Here, we showcase the innovative projects funded by national and international funders. For budding researchers and students, "Structuring a Research Article: Step-by-Step Guide", chapter six offers invaluable guidance. Chapter seven, "Potential Scholars of DIU," introduces you to the promising minds and talents that DIU nurtures. Finally, in chapter eight "Achievements of DIU," we celebrate our milestones and the recognition received on the global stage.

As we present these chapters, we hope to not only share our accomplishments but also ignite the spark of curiosity and inquiry in each of you. "Research Update 2023" is a tribute to the vibrant research community at DIU, and we extend our gratitude to all our researchers, collaborators, and supporters who make this journey possible. We invite you to immerse yourself in the pages of "Research Update 2023" and be part of our ongoing quest for knowledge and innovation. Together, we can continue to shape a brighter future for academia and society.

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CHAPTER



BUILDING A STRONG RESEARCH CULTURE

Despite being a young private university, DIU has achieved remarkable success in the fields of education and research since its establishment. This chapter aims to highlight two pivotal components of DIU' research culture model: (i) Research Collaboration & (ii) Research Awards.

CHAPTER 01

EXCELLENCE THROUGH RESEARCH COLLABORATION

Daffodil International University (DIU) is well known for its commitment to academic excellence and innovation. Despite its young age, DIU has already established a strong research culture that fosters cutting-edge research and knowledge development across a variety of disciplines. DIU believes Higher educational institutions (HEIs) hold a significant responsibility in addressing the aspirations and challenges faced by society, promoting human development, and contributing to sustainability. However, building a research culture in universities, particularly in young universities, can prove to be a challenging process that requires consistent effort and commitment from all stakeholders [1]. In the previous issue of the Research Update Magazine, I delved into the comprehensive research culture model. In this issue, I will focus on the two pivotal components of that model: (i) Research Collaboration & (ii) Research Awards.

Research Collaboration

The university's ranking is commonly seen as a gauge of its prestige, typically established by assessing a wide range of factors. Among these factors, publications are deemed essential and hold substantial importance in nearly all global university ranking systems [2-3]. In this context, research collaboration matters and it stands out as a well-established and proven approach for generating high-quality publications. Recognizing the significance of research collaboration, Daffodil International University (DIU) has undertaken various collaborative approaches to enhance the research productivity of its scholars (see Figure 1.1).

The journey commenced at the micro level with initiatives such as faculty-student collaboration and intra-departmental collaboration. Here, faculty members and students were encouraged to collaborate on research projects, fostering an environment in which students could learn from their mentors while contributing fresh perspectives to ongoing research efforts. Intra-departmental collaboration facilitated the exchange of ideas and resources, resulting in a more holistic and comprehensive understanding of various subject areas. Consequently, scholars within the same department began to leverage each other's expertise, ultimately bolstering the quality and impact of their research.

Over time, these initiatives expanded to the meso level, promoting cross-departmental and interdisciplinary collaboration. Scholars from various academic disciplines within the university were encouraged to collaborate on research projects that transcended the boundaries of their respective departments. This interdisciplinary approach allowed scholars to explore new research horizons, address multifaceted problems, and provide innovative solutions drawing from diverse fields of knowledge.

Ultimately, the university ventured into macro-level collaboration, encompassing interdisciplinary cooperation, industry partnerships, and international engagement. This involved forging partnerships with industry stakeholders and promoting international collaboration.

CHAPTER 01

EXCELLENCE THROUGH RESEARCH COLLABORATION

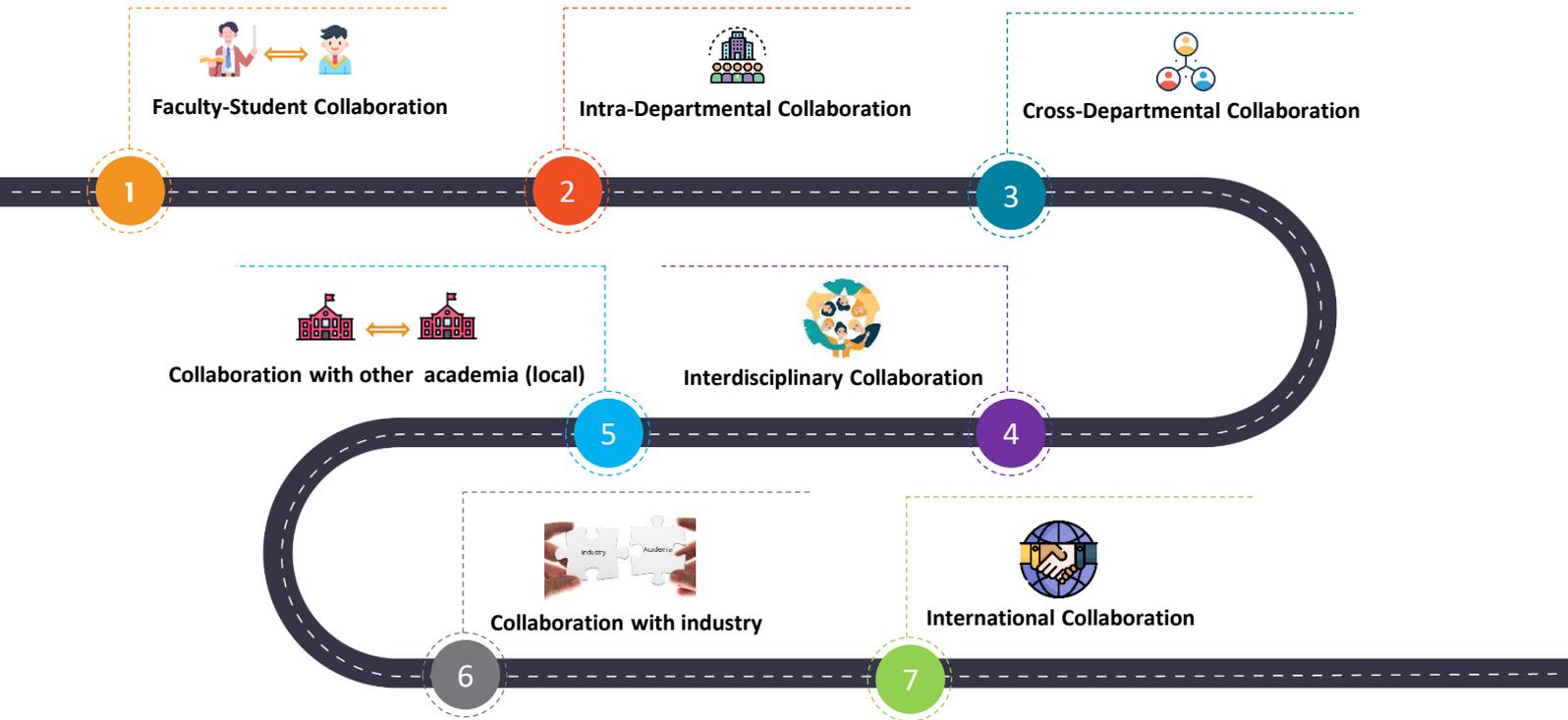


Figure 1.1 DIU's collaborative approaches to enhance the research productivity

CHAPTER 01

RESEARCH AWARDS

Research Awards

The annual Research Award Giving Ceremony, hosted by the Faculty of Graduate Studies (FGS), Daffodil International University, is a prestigious event designed to acknowledge and honor the remarkable accomplishments of its esteemed scholars, including faculty members, students, alumni, and officials. This platform not only highlights their contributions but also provides a catalyst for their continued dedication and perseverance by showcasing the institution's recognition of their valuable work. In the year 2023, the ceremony allocated Tk. 92 lacs to be distributed among the deserving awardees. This financial recognition is a reflection of their prolific publication record within highly esteemed and extensively indexed journals throughout the year 2022. Notably, Professor Dr. Md. Sazzad Hossain, Member of the University Grants Commission (UGC) of Bangladesh was the chief guest at the program.

One of the primary objectives of this grand occasion is to establish a benchmark of excellence by spotlighting the achievements of top-tier researchers. By doing so, it aims to inspire and encourage other researchers within the DIU community and beyond to aim for similar heights of success. The event serves as a beacon of aspiration, motivating researchers to channel their efforts into producing impactful and groundbreaking research that contributes to the advancement of knowledge and innovation. Thus, this event not only acknowledges past accomplishments but also lays the foundation for future breakthroughs and advancements in academia and beyond.

AWARD CATEGORIES



CHAPTER 01

MEMORIES OF RESEARCH AWARD CEREMONY 2023



Honorable Chairman, BoT Delivers Insights at Research Award Ceremony 2023



Dr. Md. Sazzad Hossain, Member of UGC, is receiving a Green Souvenir at Research Award Ceremony 2023



Dean, FGS Delivers Insights at Research Award Ceremony 2023



Dr. Md. Sazzad Hossain, Member of the UGC Delivers Insights at Research Award Ceremony 2023

CHAPTER 01

MEMORIES OF RESEARCH AWARD CEREMONY 2023



Awards are given by distinguished DIU officials at Research Award Ceremony 2023



Awards are given by distinguished DIU officials at Research Award Ceremony 2023



Awards are given by distinguished DIU officials at Research Award Ceremony 2023



Awards are given by distinguished DIU officials at Research Award Ceremony 2023

CHAPTER 01

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- [2] H. Li and Z. Yin, “Influence of publication on university ranking: Citation, collaboration, and level of interdisciplinary research,” Journal of Librarianship and Information Science, vol. 55, no. 3, pp. 828–835, Jun. 2022, doi: 10.1177/09610006221106178.
- [3] “International research collaborations: motivators, enablers and barriers,” Times Higher Education (THE), Sep. 06, 2023. <https://www.timeshighereducation.com/hub/p/international-research-collaborations-motivators-enablers-and-barriers>

CHAPTER

2

DIU RESEARCH PUBLICATIONS: TRACING PATTERNS AND TRENDS

Despite being a young private university, DIU has achieved remarkable success in the fields of education and research since its establishment. This chapter aims to highlight DIU's research activities and accomplishments over the years, along with tracing the patterns and trends observed in DIU's publications in 2022.

CHAPTER 02

NUMBER OF SCOPUS INDEXED PUBLICATIONS(2013-2022)

Daffodil International University (DIU) has demonstrated remarkable progress and an outstanding achievement in the realm of academic research, particularly in Scopus-indexed publications. In 2022, DIU soared to new heights by publishing an impressive total of 1,000 Scopus-indexed papers, solidifying its position as a leading institution in research excellence. This significant milestone reflects the relentless pursuit of knowledge and the unwavering dedication of DIU's faculty, researchers and students. The growth trajectory of DIU's research output is nothing short of extraordinary. Over the past decade, DIU has consistently showcased a remarkable upward trend in Scopus-indexed publications. In 2021, DIU published 516 papers, followed by 389 papers in 2020, 356 papers in 2019, 156 in 2018, 101 papers in 2017, 48 papers in 2016, 42 papers in 2015, 32 papers in 2014, and 21 papers in 2013 (see Figure 2.1). Notably, in 2022, DIU's publication portfolio consisted of a diverse range of scholarly works, as depicted in Figure 2.2. The largest proportion of publications were journal articles, accounting for 54.8% (548) of the total. These journal articles are rigorously peer-reviewed & published in reputable journals, underscoring the depth and breadth of DIU's research. Among the 548 journal articles published in 2022, 51.6% were in Q1 journals (top-tier), 27% were in Q2 journals (high-quality), 13.5% were from Q3 journals (good-quality), and 4% were from Q4 journals (lower-tier) (see Figure 2.3).

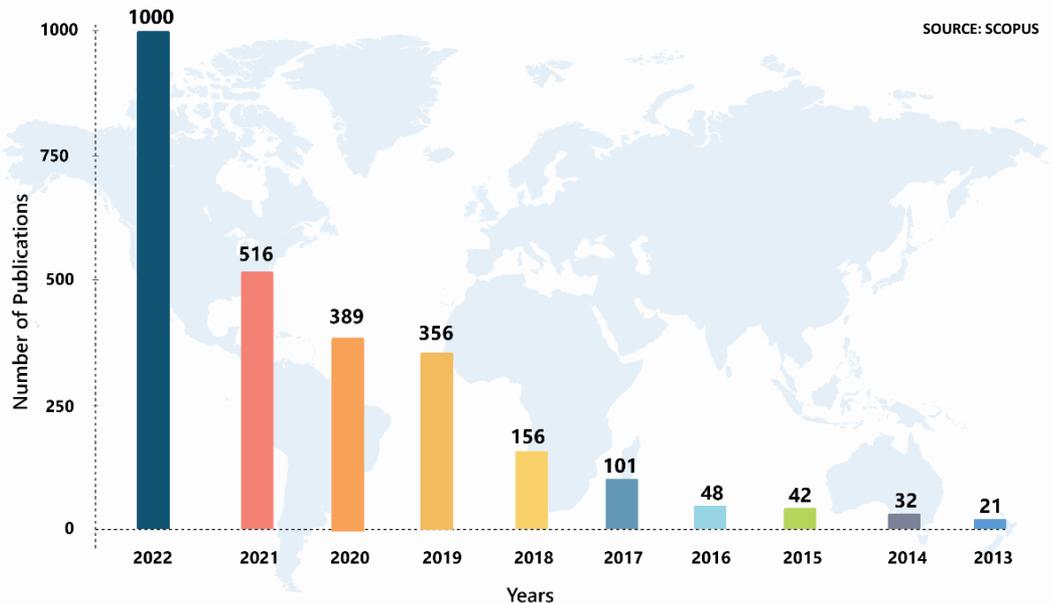


Figure 2.1 Number of Scopus indexed publications (2013-2022)

CHAPTER 02

DIU'S RESEARCH PUBLICATIONS BY TYPES

Furthermore, 22.4% of the publications were in the form of conference articles, where our scholars presented their findings and insights at esteemed academic conferences. DIU also exhibited its dedication to knowledge synthesis and critical evaluation through the 15.1% review articles, which provide comprehensive analyses of existing research. Moreover, the inclusion of 3.2% book chapters highlights DIU's involvement in collaborative efforts to contribute to authoritative academic publications. Additionally, the 3.2% of letters published signifies the university's active engagement in scholarly discussions and its capacity to convey concise yet impactful messages. Lastly, the remaining 1.6% includes a diverse array of scholarly outputs (editorials, data papers, comments etc.), underscoring the institution's commitment to exploring novel forms of knowledge dissemination. Notably, DIU's 2022 publication covers a wide range of key research areas (see Figure 2.4).

SOURCE: SCOPUS



Figure 2.2 DIU's publications by types (2022)

CHAPTER 02

JOURNAL ARTICLES BY Q-INDEX

It is worth mentioning that all these publications were published under reputable publishers. Figure 2.5 displays the top publishers for DIU's publications in 2022. It reveals that Elsevier Ltd, Hindawi Limited, MDPI, and Elsevier BV, Frontiers were the leading publishers. Additionally, Taylor and Francis Ltd, Springer, Institute of Advanced Engineering, SAGE Publications Ltd, and Routledge also contributed as key publishers. The collaborations with these esteemed publishers further enhance the visibility and impact of DIU's research publications, fostering the dissemination of knowledge within the academic community.

All these exceptional achievements stand as a testament to DIU's enduring dedication and pursuit of research and academic excellence. Consequently, with each passing year, DIU solidifies its reputation as a research university, actively contributing to the advancement of knowledge across numerous fields.

SOURCE: SCOPUS

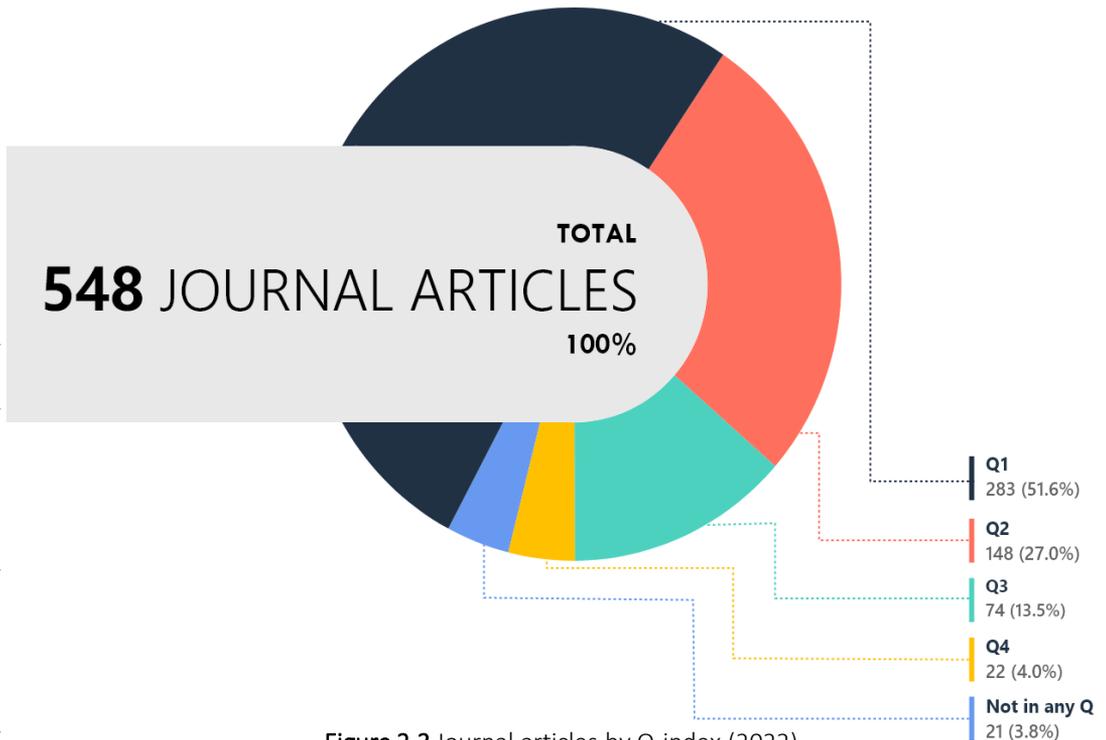


Figure 2.3 Journal articles by Q-index (2022)

CHAPTER 02

KEY RESEARCH AREAS OF DIU'S PUBLICATION (2022)

SOURCE: SCOPUS

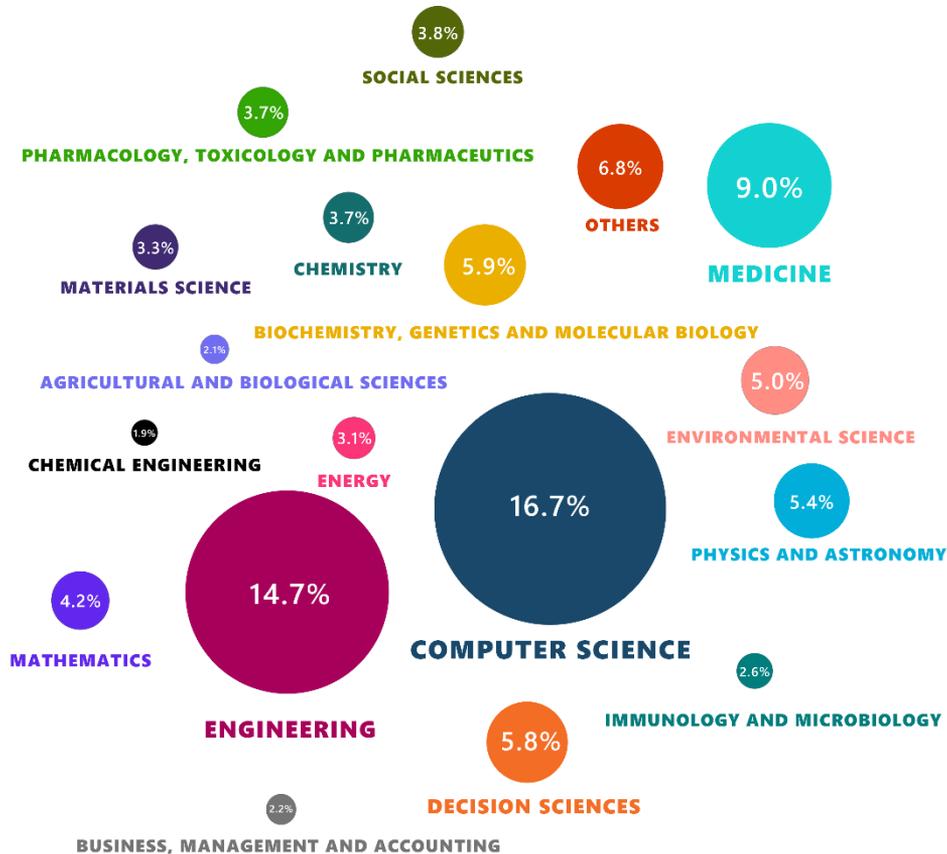


Figure 2.4 Key research areas of DIU's publication (2022)

CHAPTER 02

DEPARTMENT-WISE CONTRIBUTION TO OVERALL PUBLICATIONS (2022)

At DIU, the contributions to overall publications are diverse and span across the departments. Currently, DIU boasts over 25 departments, each with its own unique research activities. These departments are supported by 45+ labs, providing ample opportunities for faculties and students to engage in cutting-edge research. Additionally, the presence of visiting scholars further enhances the multidisciplinary research at the university.

Figure 2.6 highlights the significant contributions made by several key departments. The Department of Computer Science & Engineering (CSE), Department of Pharmacy (PHAR), Department of General Educational Development (GED), Department of Public Health (PH), Department of Business Administration (BA), and Department of Software Engineering (SWE) emerged as major contributors, accounting for 25.9%, 24.1%, 10.6%, 9.4%, 7.8%, and 5.7% of the total publications, respectively.

SOURCE: SCOPUS

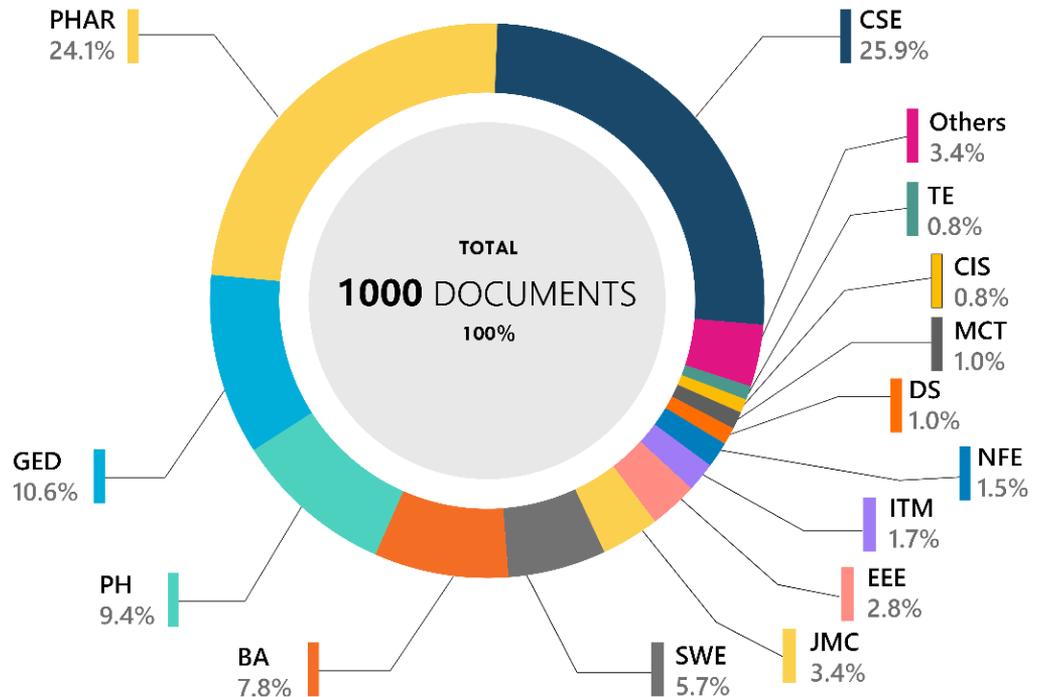


Figure 2.6 Department-wise contribution to overall publications (2022)

CHAPTER 02

DEPARTMENT-SPECIFIC RESEARCH TREND (BA)

SOURCE: SCOPUS



Figure 2.11 Research Trend (Department of Business Administration)

N.B. Bigger size of text means more important/emphasized/frequent

CHAPTER 02

DEPARTMENT-SPECIFIC RESEARCH TREND (SWE)

SOURCE: SCOPUS

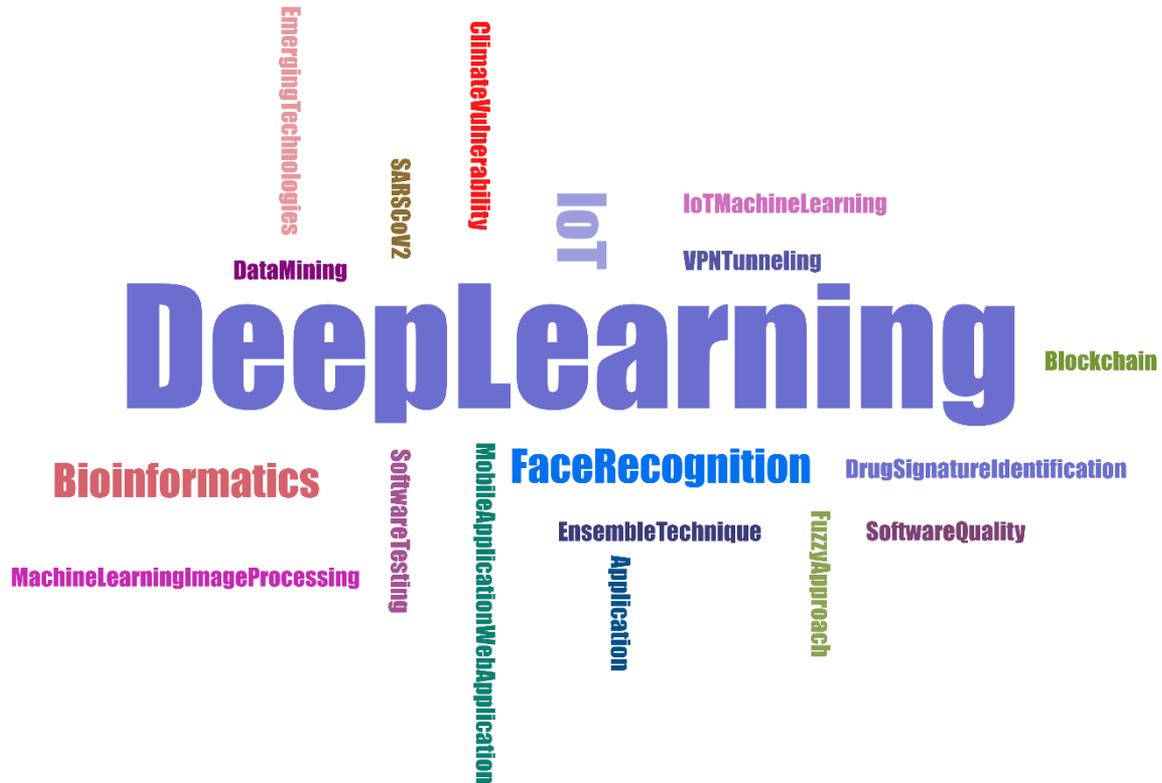


Figure 2.12 Research Trend (Department of Software Engineering)
N.B. Bigger size of text means more important/emphasized/frequent

CHAPTER 02

DEPARTMENT-SPECIFIC RESEARCH TREND (JMC)

SOURCE: SCOPUS

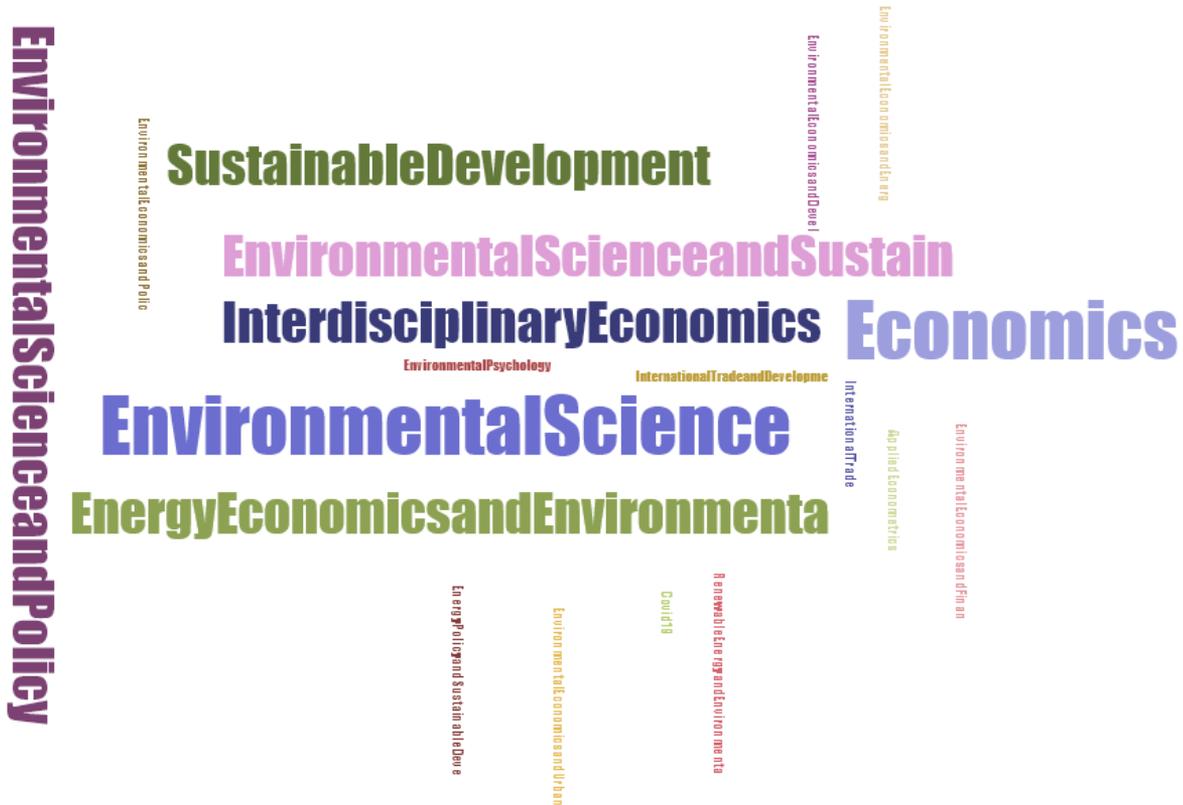


Figure 2.13 Research Trend (Department of Journalism, Media and Communication)

N.B. Bigger size of text means more important/emphasized/frequent

CHAPTER 02

DEPARTMENT-SPECIFIC RESEARCH TREND (EEE)

SOURCE: SCOPUS

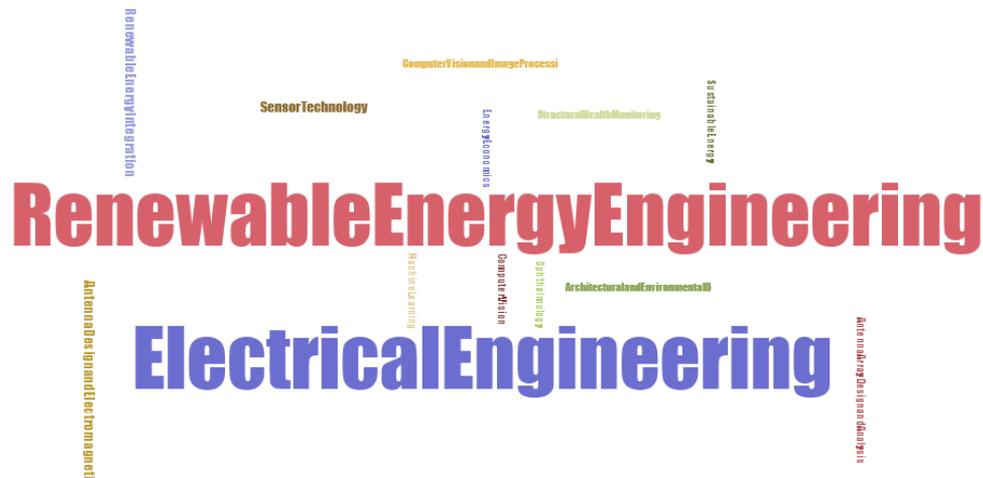


Figure 2.14 Research Trend (Department of Electrical and Electronic Engineering)

N.B. Bigger size of text means more important/emphasized/frequent

CHAPTER 02

DEPARTMENT-SPECIFIC RESEARCH TREND (ITM)

SOURCE: SCOPUS

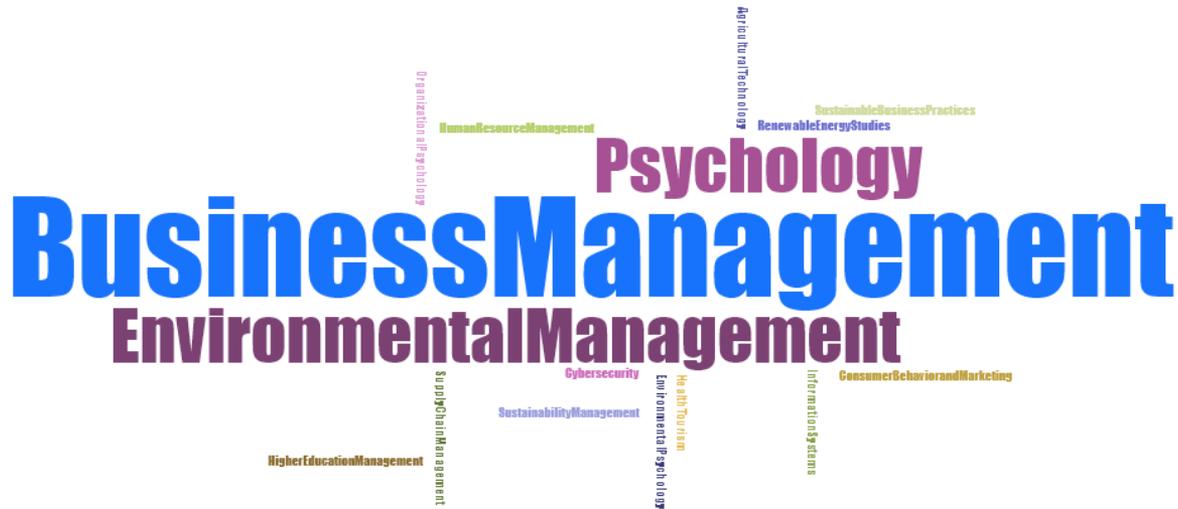


Figure 2.15 Research Trend (Department of Information Technology & Management)

N.B. Bigger size of text means more important/emphasized/frequent

CHAPTER

3

DIU INTERNATIONAL COLLABORATION AND NETOWKING

Daffodil International University's international collaboration and networking drive scientific breakthroughs, research efficiency, knowledge innovation, and resource sharing. In this chapter, we provide insights into DIU's Research Collaboration and Networking across various countries and universities, as evidenced by publications in the year of 2022.

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

DIU recognizes that the international collaboration and research network offers a wealth of opportunities for students, faculty, and staff. Therefore, DIU is unwavering in its dedication to cultivating robust research partnerships with universities, institutions, think tanks, research centers, and scholars on both national and global fronts. According to data from Scopus (refer to Figure 3.1), DIU's international engagement is impressive, as it highlights a substantial proportion of our total publications in 2022 involving at least one co-author from different countries. This not only reflects the diverse and inclusive nature of DIU's research endeavors but also shows its' commitment to expanding our global footprint.

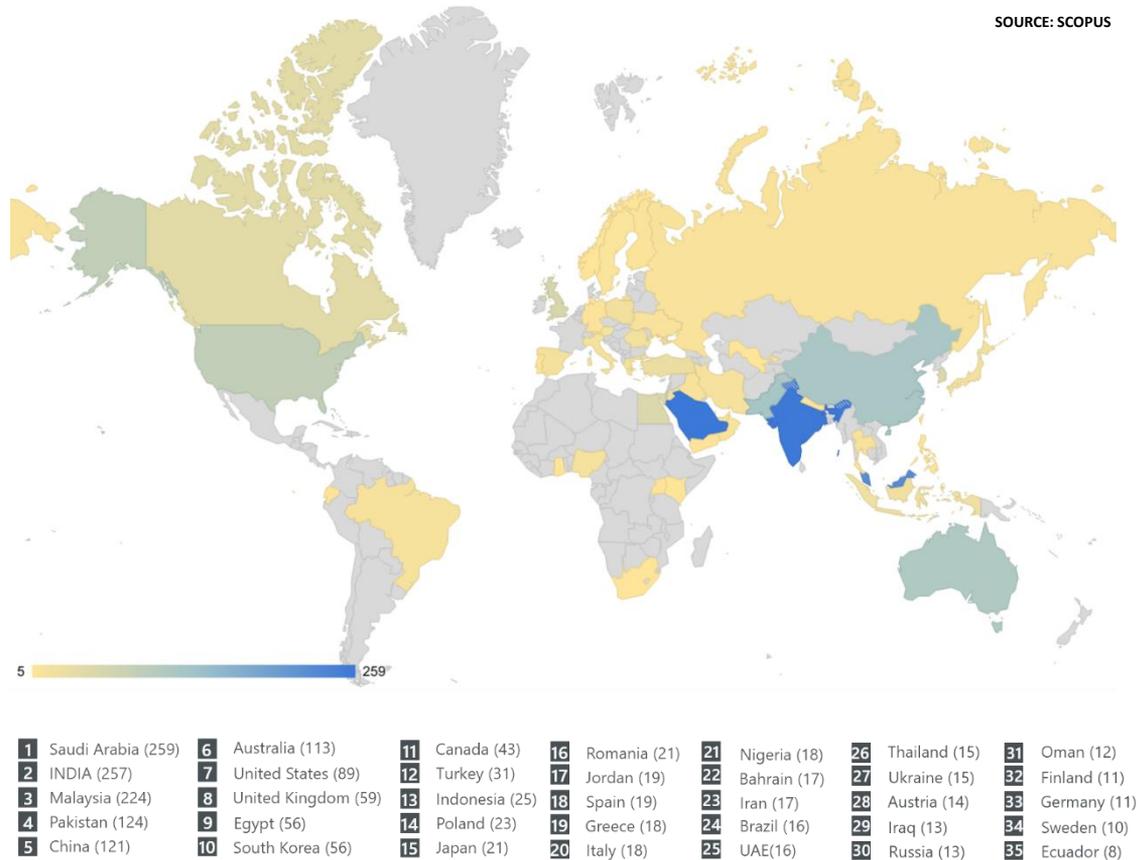


Figure 3.1 Publications involving at least one co-author from different countries (2022)

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

Furthermore, as of Scopus, in the year 2022, scholars from DIU successfully published articles in collaboration with authors affiliated with the following institutions (Source: Scopus):

1. BGC Trust University Bangladesh, Bangladesh
2. University of Dhaka, Bangladesh
3. King Abdulaziz University, Saudi Arabia
4. Sunway University, Malaysia
5. Jahangirnagar University, Bangladesh
6. Universiti Sains Malaysia, Malaysia
7. North South University, Bangladesh
8. Chitkara University, Punjab, India
9. Sichuan University, China
10. King Khalid University, Saudi Arabia
11. West China School of Medicine/West China Hospital of Sichuan University, China
12. Universiti Kebangsaan Malaysia, Malaysia
13. Prince Sattam Bin Abdulaziz University, Saudi Arabia
14. Banaras Hindu University, India
15. Jouf University, Saudi Arabia
16. Institute of Medical Sciences, India
17. Taif University, Saudi Arabia
18. Novel Global Community Educational Foundation, Australia
19. BRAC University, Bangladesh
20. Al Qassim University, Saudi Arabia
21. Princess Nourah Bint Abdulrahman University, Saudi Arabia
22. Saveetha Institute of Medical and Technical Sciences, India
23. Saveetha Dental College And Hospitals, India
24. University of Swabi, Pakistan

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

- 
25. Universiti Malaya, Malaysia
 26. Mawlana Bhashani Science and Technology University, Bangladesh
 27. UNSW Sydney, Australia
 28. Khulna University of Engineering and Technology, Bangladesh
 29. Umm Al-Qura University, Saudi Arabia
 30. UNSW Medicine, Australia
 31. Multimedia University, Malaysia
 32. King Saud University, Saudi Arabia
 33. Florida International University, Washington
 34. ARCED Foundation, Bangladesh
 35. Universiti Putra Malaysia, Malaysia
 36. Universitatea din Oradea, Romania
 37. International Islamic University Chittagong, Bangladesh
 38. SCIRE Foundation, India
 39. Punjab Agricultural University, India
 40. Western Sydney University, Australia
 41. Amrita Vishwa Vidyapeetham, India
 42. Universiti Malaysia Pahang, Malaysia
 43. East West University, Bangladesh
 44. The Australian National University, Australia
 45. Bangladesh University of Engineering and Technology, Bangladesh
 46. Universiti Malaysia Sarawak, Malaysia
 47. Yunnan University, China
 48. University of Chittagong, Bangladesh
 49. Maharishi Markandeshwar Deemed to be University, Mullana, India
 50. Chittagong University of Engineering and Technology, Bangladesh
 51. Indian Council of Agricultural Research, India
 52. CHINTA Research Bangladesh, Bangladesh

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

- 
53. Kyung Hee University, South Korea
 54. Universiti Teknologi MARA, Malaysia
 55. Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine
 56. Vellore Institute of Technology, India
 57. Presidency University, Kolkata, India
 58. Isra University, Pakistan
 59. Ahsanullah University of Science and Technology, Bangladesh
 60. Graphic Era Deemed to be University, India
 61. Sharda University, India
 62. Faculty of Tropical Medicine, Mahidol University, Thailand
 63. Rangamati Science and Technology University, Bangladesh
 64. University of Bahrain, Bahrain
 65. Mahidol University, Thailand
 66. University of Surrey, England
 67. The University of Sydney, Australia
 68. Hasanuddin University, Indonesia
 69. Amity University, India
 70. Southeast University, Dhaka, Bangladesh
 71. Abdul Wali Khan University Mardan, Pakistan
 72. European University of Bangladesh, Bangladesh
 73. Presidency University, Kolkata, India
 74. University of Saskatchewan, Canada
 75. Noakhali Science and Technology University, Bangladesh
 76. Shifa Tameer-e-Millat University, Pakistan
 77. The Millennium University, Bangladesh
 78. Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Bangladesh
 79. Indian Veterinary Research Institute, India
 80. Aristotle University of Thessaloniki, Greece

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

- 
81. Misr University for Science and Technology, Egypt
 82. United International University, Bangladesh
 83. Hajee Mohammad Danesh Science and Technology University, Bangladesh
 84. Yonsei University, Wonju College of Medicine, South Korea
 85. Taibah University, Saudi Arabia
 86. Khulna University, Bangladesh
 87. Bangladesh Council of Scientific and industrial Research BCSIR, Bangladesh
 88. Universiti Sultan Zainal Abidin, Malaysia
 89. COMSATS Institute of Information Technology Lahore, Pakistan
 90. State University of Bangladesh, Bangladesh
 91. Patuakhali Science and Technology University, Bangladesh
 92. Jagannath University, Bangladesh, Bangladesh
 93. Bangladesh University of Business and Technology, Bangladesh
 94. Altamash Institute of Dental Medicine , Pakistan
 95. Shahjalal University of Science and Technology, Bangladesh
 96. Universidade Federal de Lavras, Brazil
 97. Jadavpur University, India
 98. Independent University, Bangladesh
 99. Menoufia University, Egypt
 100. Alexandria University, Egypt
 101. Hazara University Pakistan, Pakistan
 102. Government College University Faisalabad, Pakistan
 103. Universiti Malaysia Perlis, Malaysia
 104. International Centre for Diarrhoeal Disease Research Bangladesh, Bangladesh
 105. The University of British Columbia, Canada
 106. The University of Newcastle, Australia
 107. Kyungpook National University, South Korea
 108. Hanyang University, South Korea

CHAPTER 03

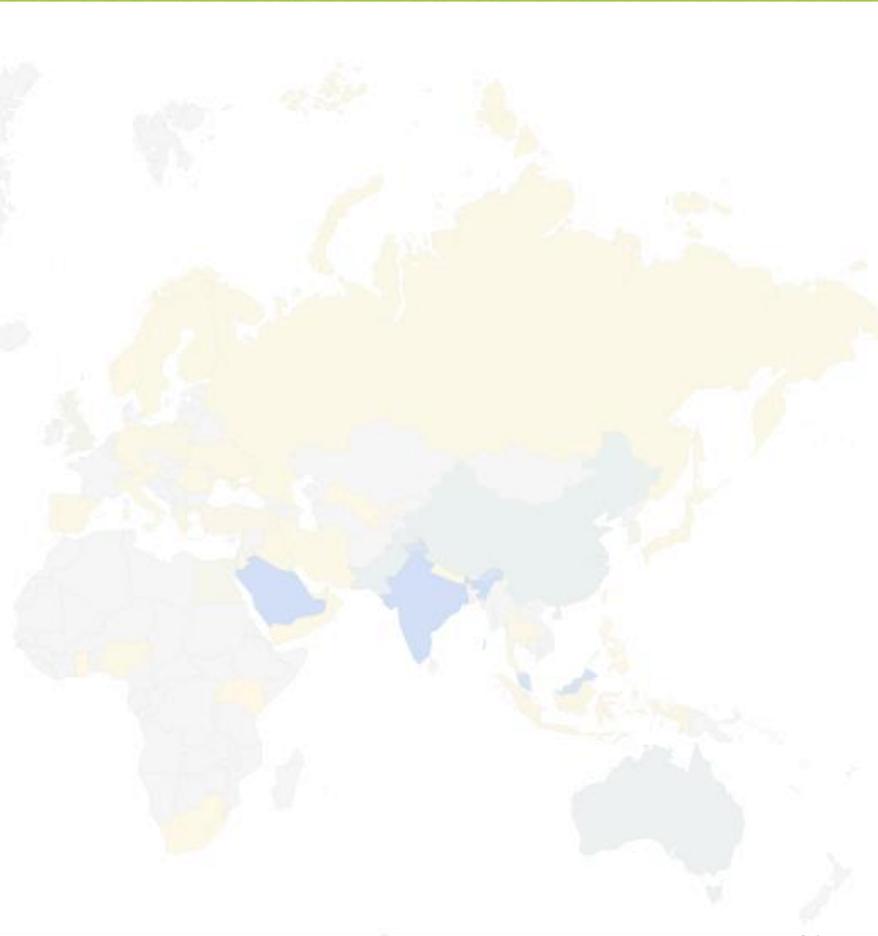
DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

- 
109. Lakehead University, Canada
 110. Dhaka University of Engineering and Technology, Gazipur, Bangladesh
 111. The University of Queensland, Australia
 112. Imam Abdulrahman Bin Faisal University, Saudi Arabia
 113. Al Ain University, United Arab Emirates
 114. Jazan University, Saudi Arabia
 115. International University of Business Agriculture and Technology
 116. Jashore University of Science and Technology, Bangladesh
 117. African Centre for Suicide, Africa
 118. Prevention and Research, Bangladesh
 119. Al-Azhar University, Egypt
 120. College of Applied Medical Sciences, Saudi Arabia
 121. Monash University Malaysia, Malaysia
 122. Universidade de Vigo, Spain
 123. University of Azad Jammu and Kashmir, Pakistan
 124. Bahria University, Pakistan
 125. Karunya Institute of Technology and Sciences, India
 126. Imam Abdulrahman Bin Faisal University, Saudi Arabia
 127. Al Ain University, United Arab Emirates
 128. Universiti Tunku Abdul Rahman, Malaysia
 129. Yonsei University Mirae Campus, South Korea
 130. University of Tabuk, Saudi Arabia
 131. College of Applied Health Science Technology, Egypt
 132. National Institute of Textile Engineering and Research, Bangladesh
 133. MAHSA University, Malaysia
 134. BGC Trust University Bangladesh, Bangladesh
 135. University of Waterloo, Canada
 136. Kingdom University, Kingdom

CHAPTER 03

DIU INTERNATIONAL COLLABORATION & RESEARCH NETWORK

137. Marwadi University, India
138. Begum Rokeya University, Bangladesh
139. Henan Agricultural University, China
140. Zagazig University, Egypt
141. Nottingham Trent University, England
142. National Institutes of Health NIH, United States
143. Wenzhou Medical University, China
144. Queensland University of Technology, Australia
145. University of Lahore, Pakistan
146. Makerere University, Uganda
147. Mbarara University of Science and Technology, Uganda
148. Najran University, Saudi Arabia
149. University of Petroleum and Energy Studies, India
150. Aristotle University of Thessaloniki, Greece
151. Rajshahi University, Bangladesh
152. Universiti Sains Malaysia, Health Campus, Malaysia
153. ANU Medical School, Australia
154. American International University, Bangladesh
155. University of Ha'il, Saudi Arabia
156. Charles Darwin University, Australia
157. University of Asia Pacific, Bangladesh
158. The University of Newcastle, Australia



CHAPTER

4

PATHWAYS TO SUSTAINABILITY: DIU'S CONTRIBUTIONS TO SDGs

Daffodil International University actively engages in a wide range of research activities and conducts root-level research projects that directly addresses various key aspects of the United Nations Sustainable Development Goals (SDGs). The purpose of this chapter is to emphasize and showcase the impacts of these activities and research endeavors, all of which are closely aligned with the SDGs.

CHAPTER 04

DIU'S RESEARCH IMPACT ON SDGs

The United Nations Sustainable Development Goals (SDGs) are the world's shared plan to end extreme poverty, reduce, inequality, and protect the planet by 2030. Adopted by 193 countries in 2015, the SDGs emerged from the most inclusive and comprehensive negotiations in UN history and have inspired people from across sectors, geographies, and cultures [1]. To effectively embrace the global agenda for 2030, Higher Education Institutions (HEIs) play a pivotal role in cultivating sustainable societies and forging new paradigms [2]. By nurturing awareness, imparting knowledge, and training present and future decision-makers, HEIs hold the power to accelerate progress toward these goals [3]. Their core mission should encompass promoting development through teaching, research, and innovation, disseminating novel insights and knowledge to students, faculty, and other stakeholders while nurturing their capabilities. In light to this, Daffodil International University (DIU), a leading private university in Bangladesh, wholeheartedly embraces this global call for action on the SDGs and actively aligns its endeavors with the United Nations' agenda. By forging partnerships with governmental organizations, industry collaborators, NGOs, the private sector, civil society, and citizens, DIU spearheads the implementation of the SDGs, fostering collaboration to create a sustainable and improved planet for future generations. DIU firmly believes in its ability to contribute significantly to the attainment of the SDGs through its provision of high-quality education, cutting-edge research initiatives, and groundbreaking and impactful innovations.

With an unwavering commitment to research and innovation, DIU has made remarkable strides in cultivating a strong research culture within its departments. DIU believes HEIs have an important role and responsibility in community development, not just simply produce trained workforce. To do so, DIU is engaged in numerous funded grass root research projects at national and international levels, spanning various departments. These projects aim to equip students, faculty, and other stakeholders with the knowledge, skills, and scientific mindset necessary to address the multifaceted challenges of sustainable development. Moreover, DIU has proactively taken significant steps to align multiple courses across its programs with the SDGs, ensuring that students are well-versed in the challenges and equipped to identify professional solutions to address them. The university's unwavering dedication to research and collaboration has yielded impressive outcomes, as exemplified by the substantial number of research articles indexed in Scopus. With over 3,200 articles published in collaboration with national and international universities, DIU has established itself as a formidable force in the academic realm. In a remarkable achievement, DIU reached a significant milestone in 2022 by publishing 1,000 Scopus-indexed articles in prestigious scholarly journals, conferences, and other scientific documents [4]. This accomplishment underscores the university's commitment to pushing the boundaries of knowledge dissemination and fostering impactful research findings. Importantly, the influence of these research endeavors extends beyond national borders, contributing to the advancement of the SDGs on a global scale.

CHAPTER 04

DIU'S RESEARCH IMPACT ON SDGs

To better understand DIU's contribution towards the fulfillment of the SDGs, we have employed the SDG Mapper Tool, a powerful resource developed by the Joint Research Centre (JRC) and Directorate-General for International Partnerships (DG INTPA) [5]. This tool has enabled a deeper understanding of how DIU's publications align with the 2030 Agenda of SDGs. Through the utilization of this tool, comprehensive SDG mapping has been generated, offering an extensive overview of how DIU's publications in 2022 address the 17 SDGs. The mapping demonstrates that DIU's publications effectively cover all 17 SDGs and their respective targets to varying extents (see Figure 4.1).

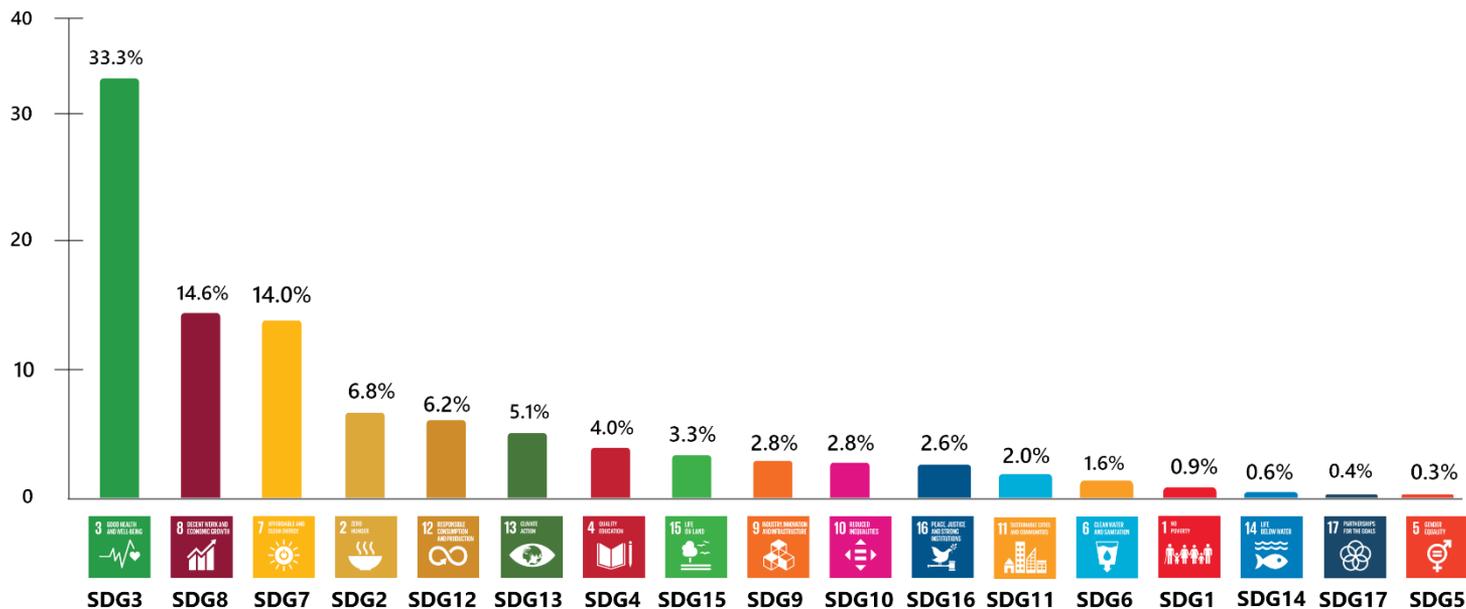


Figure 4.1 Publications of DIU 2022 aligned to the SDGs (by ranking)

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DIU'S RESEARCH IMPACT ON SDGs

Furthermore, the bubble chart presented as Figure 4.2 highlights the numerous initiatives within DIU's publications that specifically address sustainable development, with a particular focus on the Goals. This visual representation serves to strengthen DIU's commitment to this comprehensive agenda and emphasizes their determination to make a tangible difference across multiple SDGs. Notably, DIU's research output prominently contributes to SDGs 3 (Good Health and Well-being), 8 (Decent Work and Economic Growth), 7 (Affordable and Clean Energy), 2 (Zero Hunger), 12 (Responsible Consumption and Production), and 13 (Climate Action), demonstrating their concentrated efforts towards achieving the associated targets and indicators. A comprehensive list of the goals addressed by DIU's publications can be found in Table 4.1. Through unwavering dedication to research, education, and innovation, DIU continues to play a significant role in realizing the SDGs, making lasting impacts both nationally and globally with a firm commitment to leaving no one behind.



Figure 4.2 DIU's publications aligned with SDGs at the Goal level

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DIU'S RESEARCH IMPACT ON SDGs

Table 4.1 List of the SDGs (goal level) addressed by DIU's publications 2022

SDG	TARGET	DESCRIPTION
 <p>1 NO POVERTY</p>	1.1	By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.90 a day[6].
	1.2	By 2030, reduce at least by half the proportion of men, women, and children of all ages living in poverty in all its dimensions according to national definitions[6].
	1.5	By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social, and environmental shocks and disasters[6].
 <p>2 ZERO HUNGER</p>	2.1	By 2030, end hunger and ensure access by all people, especially the poor and people in vulnerable situations, to safe, nutritious, and sufficient food all year round[7].
	2.2	By 2030, end all forms of malnutrition, including achieving internationally agreed-upon targets on stunting and wasting in children under 5 years of age and address the nutritional needs of adolescent girls, pregnant and lactating women, and older persons[7].
	2.3	By 2030, double the agricultural productivity and incomes of small-scale food producers, particularly women, indigenous peoples, family farmers, pastoralists, and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets, and opportunities for value addition and non-farm employment[7].
	2.4	By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding, and other disasters, and that progressively improve land and soil quality[7].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
	2.5	By 2020, maintain the genetic diversity of seeds, cultivated plants, farmed and domesticated animals, and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional, and international levels, and promote access to and the fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed[7].
	2.a	Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development, and plant and livestock gene banks to enhance agricultural productive capacity in developing countries, particularly least developed countries[7].
	2.b	Correct and prevent trade restrictions and distortions in world agricultural markets, including through the parallel elimination of all forms of agricultural export subsidies and all export measures with equivalent effect, in accordance with the mandate of the Doha Development Round[7].
3 GOOD HEALTH AND WELL-BEING 	3.2	By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce under-five mortality to at least as low as 25 per 1,000 live births[8].
	3.3	By 2030, end the epidemics of AIDS, tuberculosis, malaria, and neglected tropical diseases and combat hepatitis, water-borne diseases, and other communicable diseases[8].
	3.4	By 2030, reduce by one-third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being[8].
	3.5	Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol[8].

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SDG	TARGET	DESCRIPTION
	3.7	By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information, and education, and integrate reproductive health into national strategies and programs[8].
	3.8	Achieve universal health coverage, including financial risk protection, access to quality essential health-care services, and access to safe, effective, quality, and affordable essential medicines and vaccines for all[8].
	3.9	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water, and soil pollution and contamination[8].
	3.b	Support the research and development of vaccines and medicines for the communicable and non-communicable diseases that primarily affect developing countries, provide access to affordable essential medicines and vaccines, in accordance with the Doha Declaration on the TRIPS Agreement and Public Health, which affirms the right of developing countries to use to the full the provisions in the Agreement on Trade-Related Aspects of Intellectual Property Rights regarding flexibilities to protect public health, and, in particular, provide access to medicines for all[8].
	3.d	Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks[8].
4 QUALITY EDUCATION 	4.3	By 2030, ensure equal access for all women and men to affordable and quality technical, vocational, and tertiary education, including university[9].
	4.4	By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs, and entrepreneurship[9].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
	4.c	By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing states[9].
5 GENDER EQUALITY 	5.1	End all forms of discrimination against women and girls[10].
	5.2	Eliminate all forms of violence against women and girls in public and private spheres[10].
	5.3	Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making [10].
6 CLEAN WATER AND SANITATION 	6.3	By 2030, improve water quality by reducing pollution, eliminating dumping, and minimizing the release of hazardous chemicals and materials, halving the proportion of untreated wastewater, and increasing recycling and safe reuse globally[11].
	6.4	By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity[11].
	6.5	By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate[11].
7 AFFORDABLE AND CLEAN ENERGY 	7.1	Ensure universal access to affordable, reliable, and modern energy services[12].
	7.2	Increase the share of renewable energy in the global energy mix[12].
	7.3	Double the global rate of improvement in energy efficiency[12].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
8 DECENT WORK AND ECONOMIC GROWTH 	8.1	Achieve higher levels of economic productivity through diversification, technological upgrading, and innovation[13].
	8.2	Promote inclusive and sustainable economic growth, employment, and decent work for all[13].
	8.3	Ensure equal access to productive employment and decent work for women and men, including young people and persons with disabilities[13].
	8.4	Improve resource efficiency in consumption and production and strive to decouple economic growth from environmental degradation[13].
	8.5	Achieve full and productive employment and decent work for all women and men, including young people and persons with disabilities[13].
	8.7	Take immediate and effective measures to eradicate forced labor, modern slavery, and human trafficking[13].
	8.8	Protect labor rights and promote safe and secure working environments for all workers, including migrant workers[13].
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	9.2	Promote inclusive and sustainable industrialization and increase the share of employment and GDP (Gross Domestic Product) from the manufacturing sector, especially in developing countries[14].
	9.4	Upgrade infrastructure and retrofit industries to make them sustainable, with increased resource efficiency and adoption of clean and environmentally sound technologies[14].
	9.5	Enhance scientific research, technological capabilities, and innovation in developing countries to promote sustainable development[14].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
	9.c	Significantly increase access to information and communications technology (ICT) and strive to provide universal and affordable access to the Internet in least developed countries by 2020[14].
10 REDUCED INEQUALITIES 	10.2	By 2030, empower and promote the social, economic, and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion, or economic or other status[15].
	10.3	Ensure equal opportunity and reduce inequalities of outcome, including through eliminating discriminatory laws, policies, and practices and promoting appropriate legislation, policies, and actions in this regard[15].
	10.4	Adopt policies, especially fiscal, wage, and social protection policies, to progressively achieve greater equality[15].
	10.7	Facilitate orderly, safe, regular, and responsible migration and mobility of people, including through the implementation of planned and well-managed migration policies[15].
11 SUSTAINABLE CITIES AND COMMUNITIES 	11.1	Ensure access for all to adequate, safe, and affordable housing and basic services, and upgrade slums[16].
	11.2	Provide access to safe, affordable, accessible, and sustainable transport systems for all[16].
	11.3	Enhance inclusive and sustainable urbanization and capacity for participatory, integrated, and sustainable human settlement planning and management[16].
	11.6	Ensure universal access to green and public spaces, particularly for women, children, the elderly, and people with disabilities[16].
	11.7	Provide universal access to safe, inclusive, and accessible public transportation systems[16].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	12.3	Halve global per capita food waste at the retail and consumer levels and reduce food losses along production and supply chains[17].
	12.4	Substantially reduce waste generation through prevention, reduction, recycling, and reuse[17].
	12.5	Substantially reduce the amount of waste that is generated through prevention, reduction, recycling, and reuse[17].
	12.8	Ensure that people everywhere have the necessary information and awareness about sustainable development and lifestyles[17].
	12.b	Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products[17].
13 CLIMATE ACTION 	13.1	Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters[18].
	13.2	Integrate climate change measures into national policies, strategies, and planning[18].
	13.3	Improve education, awareness-raising, and capacity on climate change mitigation, adaptation, impact reduction, and early warning[18].
14 LIFE BELOW WATER 	14.1	By 2020, prevent and significantly reduce marine pollution of all kinds, particularly from land-based activities[19].
	14.2	By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts[19].
	14.5	By 2020, conserve at least 10% of coastal and marine areas, consistent with national and international law and based on the best available scientific information[19].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
15 LIFE ON LAND 	15.1	By 2030, ensure the conservation, restoration, and sustainable use of terrestrial and inland freshwater ecosystems and their services[20].
	15.2	By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests, and increase afforestation and reforestation[20].
	15.3	By 2030, combat desertification, restore degraded land, and soil, including through sustainable land management practices[20].
	15.5	Take urgent and significant action to reduce degradation of natural habitats, halt the loss of biodiversity, and protect and prevent the extinction of threatened species[20].
	15.8	By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems[20].
	15.9	By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies, and accounts[20].
16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	16.3	Promote the rule of law, ensure equal access to justice, and provide legal identity for all[21].
	16.4	Reduce illicit financial flows, corruption, bribery, and organized crime[21].
	16.5	Substantially reduce corruption and bribery in all their forms[21].
	16.6	Develop effective, accountable, and transparent institutions at all levels[21].
	16.9	Provide legal identity for all, including birth registration, by 2030[21].
	16.10	Ensure public access to information and protect fundamental freedoms[21].

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DIU'S RESEARCH IMPACT ON SDGs

SDG	TARGET	DESCRIPTION
17 PARTNERSHIPS FOR THE GOALS 	17.6	Develop and operationalize effective partnerships to advance the transfer of environmentally sound technologies[22].
	17.10	Promote a universal, rules-based, open, and non-discriminatory multilateral trading system[22].

CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Action Research on: Saving Mothers, Protecting the Womb

The Research Team of the Faculty of Graduate Studies (FGS) conducted a groundbreaking study to shed light on pregnancy outcomes and the challenges faced by disadvantaged pregnant women in coastal Bangladesh. This study aimed to improve the health status of the frequently neglected and marginalized coastal pregnant women communities by harnessing cost-effective technology for water desalination and nurturing a community-driven approach. This action research was funded by the Adaptation Research Alliance (ARA), UKAid.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Study on: Scope of Work and Strategies on Disability Inclusive Climate Change Adaptation

The Faculty of Graduate Studies (FGS) research team conducted a promising study to identify opportunities and scope for disability-inclusive climate change adaptation in the Sundarbans coastal areas. DIU students and graduates, along with the team, played a crucial role in collecting data despite challenges in a poverty-stricken community. The study was funded by the Center for Disability in Development (Bangladesh) and the Christian Blind Mission (Germany). The findings will greatly contribute to promoting disaster resilience and inclusion for people with disabilities in the face of climate change.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Baseline Study on: Resilience Strengthening of Vulnerable Population in Northern, Western and Eastern Bangladesh Through A Network Approach of 5 Partner Organizations

The Faculty of Graduate Studies (FGS) research team conducted a baseline study in Khuruskul and Chowfaldandi unions under Sadar Upazila, Cox's Bazar district, Bangladesh. This study served as a crucial foundation, guiding the project's initiatives and interventions to empower the target vulnerable populations. By collaborating with PHALS and Malteser International (Germany), FGS, DIU has embraced the power of partnerships and cooperation, recognizing that our collective efforts can make a meaningful difference in the lives of those in need.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Patent Filing and Application

A 3-day workshop on "Patent Filing and Application" was organized jointly by the Faculty of Graduate Studies (FGS) and the Office of International Affairs at Daffodil International University. The workshop took place at the Prof. Aminul Islam Seminar Hall, located in Daffodil Smart City. Mr. Akarsh Sharma, a Business Analyst from Shoolini University, India, served as the Resource Person for the workshop.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Daffodil Family-Bangladesh Celebrates Art of Giving 2023 Day

Daffodil Family-Bangladesh celebrated the 'Art of Giving' day-2023 in collaboration with Art of Giving Community, KIIT & KISS India, spreading joy and support to those who contribute to their service towards the nation. Food packets were distributed at four different locations across Bangladesh, bringing nourishment and smiles to those in need. Dr. Md. Sabur Khan, Honorable Chairman of Daffodil Family, was nominated as the 'President for Bangladesh' of the Art of Giving community, recognizing his commitment to the cause and successful execution of their themes.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Taiwan-Bangladesh Youth Access Program 2020

A team of 19 students from National Central University (NCU), Taiwan, visited the green Permanent Campus of Daffodil International University as part of the Taiwan-Bangladesh Youth Access Program 2020. The purpose of the program was to promote cross-cultural knowledge sharing between the two universities and provide the students with an opportunity to experience the initiatives and leadership practices of YSBC and SBSF. The visit included a presentation at the Innovation Lab showcasing SBSF projects, DIU initiatives, and highlights of Bangladesh, followed by participation in local sports and cultural programs at Bonomaya, and a campus tour. The event was organized by the Office of the International Affairs and Social Business Students' Forum (SBSF), DIU.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Community Outreach Activity

The final-year students (201 batch) of the Department of Nutrition and Food Engineering at DIU organized a remarkable Community Outreach activity with the objective of promoting healthy habits and raising awareness about nutrition among the students of primary schools in Birulia, Savar area, as well as at Daffodil Institute of Social Sciences - DISS. They successfully connected with the young minds by utilizing interactive approaches such as role-play, poster presentations, quizzes, and games, effectively spreading crucial knowledge about nutrition.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Industry Visit: TK Group

The 4th-year Marketing students from the Faculty of Business and Entrepreneurship at Daffodil International University (DIU) had a wonderful opportunity to dive into a real-life corporate environment. They had the privilege of exploring the vibrant business operations at TK Group. This immersive experience offered them invaluable insights and practical knowledge, which will undoubtedly have a significant impact on their future careers. By aligning with the Sustainable Development Goals (SDGs), these students are well-equipped to make a positive impact in the world of marketing.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



DIU Industry-Academia Lecture series second phase

The second phase of the DIU Industry-Academia Lecture series has commenced at Daffodil International University. Sheikh Nasir Uddin, Chairman of Akij Group, acknowledged the private sector's significant contribution to Bangladesh's production growth and job creation despite facing limitations. However, he emphasized that there are still unresolved challenges that fall beyond their jurisdiction, which he highlighted as the keynote speaker during the first program of the lecture series at the university's International Conference Hall in Daffodil Smart City, Birulia, Savar Dhaka.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



World Health Day Rally

Department of Public Health, Daffodil International University organized a World Health Day Rally on the 7th of April, aimed to emphasize the importance of health promotion, disease prevention, and access to quality healthcare for all individuals. The event showcased the collective efforts required to address health challenges and ensure a better, more equitable future.



CHAPTER 04

SELECTED ACTIVITIES ALIGNED WITH SDGs



Industry Visit: Walton Hi-tech Industries Limited

The Faculty of Business & Entrepreneurship at Daffodil International University consistently arranges industry visits to enhance practical knowledge. These visits serve as a platform for our students to engage with entrepreneurs, industry experts, professionals, and corporate leaders, who generously share their valuable wisdom and experiences. As part of this, a group of 80 students, faculty members, and officials from the Marketing and Employability 360-degree programs recently had the privilege of visiting Walton Hi-tech Industries Limited, a well-known conglomerate in Bangladesh.



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CHAPTER

5

FUNDED RESEARCH PROJECTS

Daffodil International University actively engages with various externally funded projects by national and international donors, fostering a vibrant environment of innovation, research, and community development. These initiatives underscore the university's commitment to advancing knowledge, empowering communities, and driving societal change. In this chapter, we delve into the university's dynamic collaboration landscape, exploring the diverse range of projects that exemplify its dedication to excellence and impact.

CHAPTER 05

OUR NATIONAL AND INTERNATIONAL FUNDERS (2022-2023)



Bringing hope, dignity and meaning to life



CHAPTER 05

FUNDED RESEARCH PROJECTS (2022-2023)

PROJECT TITLE	FUNDED BY	AMOUNT	DEPARTMENT / FACULTY	PRINCIPAL / CO INVESTIGATOR	CONTACT
Scope of Work and Strategies on Disability Inclusive Climate Change Adaption	Center For Disability in Development (CDD), Bangladesh and Christian Blind Mission(CBM) Germany	8,50,000 BDT	Faculty of Graduate Studies (FGS)	Prof. Dr. Md Kabirul Islam Dean, Faculty of Graduate Studies (FGS)	E-mail: kislam@daffodilvarsity.edu.bd Phone: +8801819382879
Sustainable Solutions for Salinity-affected Communities in Coastal Bangladesh: Integrating Technology and Health Impact	Adaptation Research Alliance (ARA), UKAID	15,000 GBP	Faculty of Graduate Studies (FGS)	Prof. Dr. Md Kabirul Islam Dean, Faculty of Graduate Studies (FGS)	E-mail: kislam@daffodilvarsity.edu.bd Phone: +8801819382879
Resilience Strengthening of Vulnerable Population in Cox's Bazar	Programme for Helpless and Laggged Societies (PHALS), Bangladesh and Malteser International, Germany	3,75,000 BDT	Faculty of Graduate Studies (FGS)	Prof. Dr. Md Kabirul Islam Dean, Faculty of Graduate Studies (FGS)	E-mail: kislam@daffodilvarsity.edu.bd Phone: +8801819382879

CHAPTER 05

FUNDED RESEARCH PROJECTS (2022-2023)

PROJECT TITLE	FUNDED BY	AMOUNT	DEPARTMENT / FACULTY	PRINCIPAL/CO INVESTIGATOR	CONTACT
Development of a solar based electricity model in public university of Bangladesh and its advocacy for solar PV electricity promotion	Tara Climate Foundation, Singapore	59,921 USD	EEE	Professor Dr. M. Shamsul Alam, Dean, Faculty of Engineering	Email: deanfe@daffodilvarsity.edu.bd Phone: +8801833102814
A simple formulation for determining the residual strength of a RC structure exposed to fire.	Daffodil International University	3,97,750 BDT	Civil Engineering	Mr. Md. Mehedi Hassan Bhuiyan, Lecturer	Email: mehedihassanbhuiyan.ce@diu.edu.bd Phone: +8801831963505
Phytochemical and pharmacological investigation of immunity boost-up herbs available in Bangladesh	Ministry of Science and Technology, Bangladesh	90,000 BDT	Pharmacy	Dr. Sharifa Sultana, Associate Professor	Email: sharifa@daffodilvarsity.edu.bd Phone: +8801816866925

CHAPTER 05

FUNDED RESEARCH PROJECTS (2022-2023)

PROJECT TITLE	FUNDED BY	AMOUNT	DEPARTMENT / FACULTY	PRINCIPAL/CO INVESTIGATOR	CONTACT
Investigation of the anti-Hyperlipidemic, obesity and fatty liver activity of some beneficial Mangrove plants in sundarbans.	Ministry of Science and Technology, Bangladesh	50,000 BDT	Pharmacy	Md. Mominur Rahman, Lecturer	Email: mominur.ph@diu.edu.bd Phone: +8801730627585
Scientific investigation of bioactive compounds and their pharmacological activities of Trapanatans	Ministry of Science and Technology, Bangladesh	90,000 BDT	Pharmacy	Dr. Md. Sarowar Hossain, Associate Professor	Email: sarowar.ph@diu.edu.bd Phone: +8801777845198
Implementing of NCDs tackling model covering Hypertension and Diabetes mellitus centering the vulnerable community in Southern part of Bangladesh	Local funding Directorate General of Health Services (DGHS), Government of the People's Republic of Bangladesh	900,000 BDT	Public Health	Professor Dr. Salamat Khandker (Co-PI)	Email: drsalamat@daffodilvarsity.edu.bd Phone: +8801712595502

CHAPTER 05

FUNDED RESEARCH PROJECTS (2022-2023)

PROJECT TITLE	FUNDED BY	AMOUNT	DEPARTMENT / FACULTY	PRINCIPAL/CO INVESTIGATOR	CONTACT
Smartphone Usage and Health Problems Among University Students in Bangladesh	HPNSDP Development Program of Government	4,00,000 BDT	Public Health	Dr. Md. Shahjahan	Email: drshahjahan@daffodilvarsity.edu.bd Phone: +8801714324048
Traffic Congestion is a big challenge for Dhaka City: Analysis from stakeholders Perspectives	Ministry of Education Bangladesh Bureau of Educational Information & Statistics (BANBEIS)	12,00,000 BDT	Public Health	Dr. A B M Alauddin Chowdhury (Co-PI)	Email: dralauddin@daffodilvarsity.edu.bd Phone: +8801303616913

CHAPTER

6

STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

This chapter is specially designed for DIU students and early career researchers, offering valuable guidance on how to structure their research articles effectively. Whether it's their first publication or they want to improve their research skills, this chapter will be a helpful companion throughout their research journey.

CHAPTER 06

STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

Prof. Dr. Md Kabirul Islam

Dean, Faculty of Graduate Studies (FGS), Daffodil International University

Maruf Ahmed Tamal

Research Fellow, Faculty of Graduate Studies (FGS), Daffodil International University

As an academician, I feel incredibly fortunate to be surrounded by so many young and brilliant minds. Over the years, I've had the privilege of guiding a diverse group of students, ranging from those facing extreme academic challenges to highly creative and innovative individuals. Through this journey, I have witnessed many students produce outstanding thesis works; however, some have faced difficulties in gaining widespread recognition or reaching a broader audience due to fundamental issues in their research. To address this concern, I have taken an initiative to design this specialized chapter tailored specifically for students and early career researchers at DIU. The aim of this chapter is to provide valuable guidance on how to effectively structure their research articles. Whether they are preparing for their first publication or seeking to enhance their research skills, this chapter is expected to serve as a helpful companion throughout their research journey. Within the pages of this chapter, students and young researchers will find comprehensive insights on crafting research articles that stand out and garner the recognition they deserve. These include, but are not limited to, the meticulous crafting of a compelling research title, good keywords, a well-crafted introduction, a thorough literature review, a robust methodology, detailed results, insightful discussions, and conclusive sections (see Figure 6.1). By delving into each of these components, they will gain a deeper understanding of how to effectively structure their research articles and present their findings with clarity and coherence. Throughout this chapter, practical tips, illustrative examples, and step-by-step instructions will be provided to ensure that students and young researchers can apply these insights directly to their own work. By mastering these fundamental elements of research article composition, they will significantly increase the impact and recognition of their scholarly contributions, allowing their work to resonate with a broader audience and make a meaningful impact in their respective fields.



CHAPTER 06

STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE



Figure 6.1 Structuring research article

CHAPTER 06

STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

WRITING AN EFFECTIVE TITLE

Your article's title will be the first thing readers see when they read it, and for many, that will be where they stop reading. The title of an article is the key aspect that creates the initial impression and is considered as the article's "face"[1]. Therefore, title needs to be appealing enough to arouse the reader's interest and curiosity to read further [2]. Millions of peer-reviewed journal articles and conference papers are being published each year, and readers do not have the time to read all. In that situation, they must be selective, and this selection is frequently influenced by the title. In addition to readers, editors and reviewers also evaluate the title to see if it accurately describes the manuscript's contents [3]. Now the question is "How you can write a great title?". Although there are no specific rules of thumb for title writing since it varies across disciplines and types (descriptive, declarative, interrogative, etc.), there are some general yet effective writing advice you may follow when writing the title for your article[1-5]:

DO

- Your title should be concise, informative, attractive, effective and appropriately reflect the paper's content.
- Your title should be simple, specific, and try to include relevant keywords for effective cross-referencing and computer searches.
- In order to reach the intended audience, you can use few catchy words in title related to your contents.
- Last but not least, take a look a few articles that have been published in your desired journal and carefully check the guidelines.

DON'T

- Avoid too short or too long title. Title should be concise (10–15 words) while still being sufficiently clear to provide readers a thorough understanding of your content.
- Be honest with your title. Don't include anything that can mislead your readers.
- Avoid using abbreviations, unnecessary acronyms and technical jargon in the title.
- You should omit all the redundant words, phrases and adjectives to be more accurate and precise.

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STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

WRITING AN EFFECTIVE ABSTRACT

An abstract serves as a succinct and informative summary of your research paper. Typically consisting of about 7-10 sentences and spanning 150-300 words, the abstract aims to provide readers with a clear understanding of the essential elements of your study without requiring them to delve into the complete manuscript [6]. Its primary purpose is to pique the readers' interest and encourage them to explore the full paper or article. By highlighting the key aspects and findings of the research, the abstract plays a crucial role in conveying the significance and relevance of the study to the broader audience. Now, let's see how you can write a good abstract [1], [4],[6-9]:

DO

- Clearly state the context and purpose of the study (1-2 sentences).
- Succinctly describe the specific problem or gap in the literature that your study intends to tackle (1-2 sentences).
- Outline the approach or methodology employed in the study. Mention the research design, data collection methods, and any notable techniques used (1-2 sentences).
- Present the key outcomes of the study. Provide essential quantitative or qualitative results without delving into the specific data or analysis (2 sentences).
- Conclude the abstract with one sentence discussing the implications of the study's findings.
- To keep the abstract within the word limit of 150-250 words.

DON'T

- An abstract should not include citations or references to other works. It should stand alone as a self-contained summary of your research, without relying on external sources.
- Avoid using personal pronouns such as "I," "You," "We," or "They."
- Avoid unnecessary abbreviations or acronyms.
- The abstract should not introduce any information that is not already present in the main body of the research paper.
- The abstract should never contradict the statements, results, or conclusions presented in the main manuscript.
- An abstract should be a single, cohesive paragraph. Avoid using multiple paragraphs, as the abstract's purpose is to be a succinct summary.
- An abstract should be brief and to the point. Generally, it is recommended to keep it under 250 words.

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STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

SELECTING EFFECTIVE KEYWORDS

Selecting effective keywords is a crucial step in the process of publishing research papers and ensuring their discoverability. By choosing the right keywords, you can improve the visibility and reach of their work, making it easier for interested readers and researchers to find their articles. Here are some guidelines to help you select effective keywords[11-12]:

DO

- Before submitting your paper, carefully review the journal's instructions for authors and adhere to their requirements for keyword selection.
- Keywords should accurately reflect the content and specific to field. Choose words that are commonly used in your field or sub-field of study.
- Limit Keywords to 6-8 words. Most academic journals recommend limiting your keyword list to 6-8 words to maintain relevance and avoid keyword stuffing.

DON'T

- Avoid using single word keyword.
- Avoid too much (e.g., greater than 10) or too less (e.g., less than 5)

WRITING EFFECTIVE INTRODUCTION AND LITERATURE REVIEW SECTION

A well-written introduction (including literature review) is important as it plays a crucial role in setting the stage for the study, providing context, and highlighting the gaps in existing knowledge. A well-crafted introduction should begin with a broad overview of the subject area and gradually narrow down to the specific topic of interest. It should critically analyze the existing studies, identify the themes, debates, and gaps related to the chosen topic, and ultimately lead the reader to the research objectives. Here's a guide on what to add and skip when writing an effective introduction and literature review section [13-16]:

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STRUCTURING A RESEARCH ARTICLE: STEP-BY-STEP GUIDE

DO

- Begin the introduction by providing a brief overview of the broader subject area. This will help the readers understand the context and relevance of your research.
- Conduct a thorough review of the existing literature related to your topic.
- Analyze and synthesize the findings from various studies to identify key trends, patterns, and disagreements in the research.
- To aid the reader's comprehension, break down the identified themes and debates into concise and coherent sections.
- Clearly state the objectives of your research. Explain how your study aims to address the gaps identified in the literature.
- Provide a brief overview of the structure of your paper, outlining how you will organize the subsequent sections.

DON'T

- Avoiding narrowing the topic's background too much. Because, excessively limiting the context can make the study seem disconnected from existing knowledge and fail to provide a comprehensive understanding of the subject matter.
- Avoid just summarizing the findings of previous studies without critically analyzing or synthesizing the information.
- Avoid citing too much old literature or unnecessary references.
- Avoid overemphasizing your own previous work in the introduction and literature review section.

WRITING EFFECTIVE METHODOLOGY SECTION

A well-defined methods section significantly influences the editorial evaluation of a research paper and enhances readers' comprehension of the study's procedures. Moreover, it serves as the backbone of transparency and replicability, allowing other researchers to reproduce the study and validate its findings. To ensure an effective methodology section, consider the following guide, which highlights essential elements to include and others to omit:

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DO

- Clearly specify the study design and settings.
- Properly describe the target population, sample size, sampling technique.
- Present the data collection instrument with proper justifications (validity and reliability).
- Present the data collection procedure and briefly describe the data analysis techniques.
- Describe the dataset with detailed explanation.
- Specify the ethical considerations
- Follow field- and journal-specific guidelines.

DON'T

- Avoid summarizing methods without giving full details.
- Avoid using poor justifications.
- Avoid lack of transparency.

WRITING EFFECTIVE RESULT SECTION

The result section of your research paper holds immense importance as it serves as the gateway to the study's findings, presenting the outcomes of the investigation in a clear, structured, and comprehensive manner. A well-organized result section is crucial because it allows readers to grasp the key outcomes easily, fostering a deeper understanding of the study's implications and significance. By presenting the data and findings in a systematic format, you can highlight patterns, trends, and statistical significance effectively. This organization aids in the interpretation of results and facilitates comparisons with previous studies, strengthening the research's overall credibility. Writing a good result section is an art. However, most of the time we failed to meet the standard when writing a good result section in our research paper. To ensure an effective result section, consider the following guide, which highlights essential elements to include and others to omit [4], [18-20]:

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DO

- Use simple and clear language.
- Describe what you observed, without commentary or discussion.
- Present the result for every research question and method that previously outlined.
- Try to report the findings in a systematic manner for better understanding the other researchers.
- Break down the findings for easy-to-understand.
- Use relevant tables and figures for better presentation.
- Follow journal specific guideline(s).

DON'T

- Use of commentary/explanation of the findings.
- Use of single paragraph.
- Lack of illustrations like tables, figures, charts, or other visual diagrams.
- Complex writing style

WRITING EFFECTIVE DISCUSSION SECTION

The discussion section of a research paper holds paramount importance as it provides the opportunity for you to interpret and contextualize their study's findings in light of existing knowledge and theoretical frameworks. Sometimes, this section is compared with the heart of the research paper, where researchers can delve deeper into the implications of their results and offer insightful insights into the broader significance of their work. Let's see the essential elements to include and omit when writing this section, [4],[21-23]:

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DO

- State the principal findings (concisely).
- Explain the insights of the findings.
- Present the comparative analysis of your findings with previous research findings.
- Present a comparison between your results and initial hypothesis.
- Describe how the obtained findings address the topic under investigation.
- Discuss any unexpected findings.
- Offer future research directions/recommendations/practical implications.
- Highlight the limitations

DON'T

- Avoid rewriting the results/abstract.
- Avoid Including something that no specified previous.
- Avoiding limitations/ negative results.

WRITING EFFECTIVE CONCLUSION SECTION

When writing effective conclusion section, it becomes very difficult many authors what to include and what to omit. Let's see the essential elements to include and omit when writing this section [4], [22]:

DO

- Summarize the findings of the study aligned with study purposes and give a take home message to the readers.
- Highlight the significance of this study.
- Try to be concise and finish it writhing one paragraph.

DON'T

- Avoid using more than one paragraph.
- Avoiding re-writing the abstract.

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EFFECTIVE REFERENCING

Proper referencing is a fundamental aspect of academic integrity. It gives credit to the original authors and acknowledges their contributions to the body of knowledge. Correct and consistent referencing enhances the credibility and trustworthiness of the article. So, let's see the key aspects of good and bad referencing:

DO

- Maintain a consistent referencing style throughout the article. Follow a specific citation format (e.g., APA, MLA, Chicago) to ensure clarity and readability for the readers.
- Follow journal specific guideline.

DON'T

- Avoid mixing different referencing styles.
- Avoid too much old back-dated references.

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CHAPTER

7

POTENTIAL SCHOLARS OF DAFFODIL INTERNATIONAL UNIVERSITY

Daffodil International University has a substantial community of scholars who have significantly enriched their respective fields of interest. This chapter highlights the noteworthy individuals who have the potential to make impactful contributions and showcases the recent achievements of DIU.

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Prof. Dr. Syed Akhter Hossain	Dean & Professor	Faculty of Science and Information Technology	<ul style="list-style-type: none">• Simulation and Modeling• Distributed System Design and Implementation• Signal and Image Processing• Internet and Web Engineering• Network Planning and Management• Database and Data Warehouse Modeling• AI• Data Mining• Multi-Agent Modeling	deanfsit@daffodilvarsity.edu.bd
Prof. Dr. Touhid Bhuiyan	Professor & Head	Department of computer science and engineering	<ul style="list-style-type: none">• Cyber Security• Trust Management• AI• Recommender System• Database Management• E-Learning• Trust Management• Social Network Analysis• Subjective Logic• Software Engineering	headcse@daffodilvarsity.edu.bd

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Prof. Dr. Md. Fokhray Hossain	Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Computer technology• Information system• Computer architecture• Digital electronics• Enterprise networking,• Telecommunication• E-commerce & e-business• Quantitative methods• Decision support system	drfokhray@daffodilvarsit y.edu.bd
Prof. Dr. Md. Ismail Jabiullah		Department of Computer Science and Engineering	<ul style="list-style-type: none">• Network Security, Web Security, Software Security, Internet Security• Image Processing, Computer Vision• Wireless Network, Cellular Network, Satellite Network• Artificial Intelligence and Neural Networks• Software Testing• Machine Learning• Deep Learning	drismail.cse@diu.edu.bd

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Professor Md. Monzur Morshed	Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Information systems in business• Pattern recognition• HCI-bangla text entry techniques for mobile phones• Privacy and security in RFID systems	monjur.morshed@diu.edu.bd
Dr. Sheak Rashed Haider Noori	Professor & Associate Head	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Semantic web• Human computer interaction• Gamification• Pervasive and mobile computing• Distributed system• Information and knowledge management• Data mining.	aheadcse@daffodilvarsity.edu.bd
Dr. Sk. Abdul Kader Arafin	Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Radiation and Health Physics (Environmental Health and Medical Physics)• Materials Property• Quality Education	skak_arafin@daffodilvarsity.edu.bd

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

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Prof. Dr. Engr. A. K. M. Fazlul Hoque	Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Nuclear Engineering,• Electronics• Instrumentation and Measurements• Environment• Materials Sciences• Physics	drhoque@daffodilvarsity.edu.bd
Dr. S. M. Aminul Haque	Associate Professor and Associate Head	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Machine learning• Artificial intelligence• Data mining• Distributed and high performance computing	aminul.cse@daffodilvarsity.edu.bd
Dr. Md Zahid Hasan	Associate Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Health informatics• Smart agricultural system• Machine learning• Deep learning• Computer vision• Data mining & decision science• Operational research• Smart web and apps development	zahid.cse@diu.edu.bd

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Dr. Md. Atiqur Rahman	Associate Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Machine learning• Deep learning• Natural language processing• Data analysis• Data compression• Image processing• Data mining & computer vision	atiqurrahman.cse@diu.edu.bd
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Ms. Naznin Sultana	Associate Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Machine Learning• Artificial Intelligence• Data Mining• Digital Image Processing	naznin.cse@diu.edu.bd
Dr. Arif Mahmud	Associate Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Networking• Communication System• Information System• IoT• Structural Equation Modeling	arif.cse@diu.edu.bd
Dr. Md. Kamrul Hossain	Associate Professor	Department of Computer Science and Engineering	<ul style="list-style-type: none">• Efficiency Measurement: DEA and SFA• Impact of Climate Change• Application of Statistical Distributions• Statistical Data Mining	headged@daffodilvarsity.edu.bd

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Prof. Dr. Mohammed Masum Iqbal	Professor and Dean	Department of Business Administration	<ul style="list-style-type: none">• Marketing• Customer Relationship Management• Human Resources Management	masum@daffodilvarsity .edu.bd
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Dr. Sayed Farrukh Ahmed	Associate Professor and Head	Department of Business Administration	<ul style="list-style-type: none">• Accounting• Cross Cultural Management• E-marketing Management	farrukh@daffodilvarsity .edu.bd
Dr. Tanvir Fittin Abir	Associate Professor	Department of Business Administration	<ul style="list-style-type: none">• Public Health• Computational Intelligence• Social Media Marketing• Tourism and Hospitality• Automatic detection	tanvir.ba02876.c@diu. edu.bd
Dr. Mohammad Shibli Shahriar	Associate Professor	Department of Business Administration	<ul style="list-style-type: none">• Business• Marketing• English language	shibli@daffodilvarsity.e du.bd

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Dr. Md. Abdur Rouf	Associate Professor	Department of Business Administration	<ul style="list-style-type: none">• Corporate Financial Reporting• Corporate Governance.	rouf.bba@diu.edu.bd
Dr. Khadiza Rahman Tanchi	Associate Professor	Department of Business Administration	<ul style="list-style-type: none">• Emerging Market• Transformational Leadership• Employee Turnover• Soft Skills	khadiza@daffodilvarsity.edu.bd
Dr. Sayedul Anam	Associate Professor	Department of Business Administration	<ul style="list-style-type: none">• Time Series Analysis• Stochastic Linear Programming	anam.ged@daffodilvarsity.edu.bd
Prof. Dr. Md. Abul Hossain	Professor	Department of Business Administration	<ul style="list-style-type: none">• Housing Finance system in Bangladesh• Real Estate Business	hossain@daffodilvarsity.edu.bd
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Prof. Dr. Md. Kabirul Islam	Professor and Dean	Faculty of Graduate Studies (FGS)	<ul style="list-style-type: none">• ICT4D• Multimedia and Web Technologies in Learning• E-learning and M-learning• Machine Learning• Constructivist Design of Learning• Educational Data Science	kislam@daffodilvarsity.edu.bd
Dr. Shaikh Muhammad Allayear	Professor	Department of Multimedia & Creative Technology (MCT)	<ul style="list-style-type: none">• High Performance Computing• iSCSI Protocol• Big Data• Cloud Computing• Network Storage Solutions (NAS, SAN, iSCSI)• Android Games and Musical Applications. Google Mentor.• Digital Music Systems.	drallayear.mct@diu.edu.bd
Dr. Imran Mahmud	Associate Professor and Head	Department of Software Engineering	<ul style="list-style-type: none">• Usability Engineering• Software Engineering• Educational Technology• HCI• Management Information system	imranmahmud@daffodilvarsity.edu.bd

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Professor Dr. Engr. Abdul Kadar Muhammad Masum	Professor	Department of Software Engineering	<ul style="list-style-type: none">• Machine Learning• Business Informatics• Health Informatics• ICT applications in Business• Education and Governance	masum.swe@diu.edu.bd
Dr. A. B. M. Kamal Pasha	Professor and Head	Department of Environmental Science and Disaster Management	<ul style="list-style-type: none">• Coastal Environment and Geo-environmental Changes• Climate Change Impact on the Environment.• GIS and Remote Sensing in Environmental Science and Disaster Management• Ecosystem Conservation.• Environmental Issues and Solutions	drpasha@daffodilvarsity.edu.bd

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Dr. Mahfuza Parveen	Associate Professor	Department of Environmental Science and Disaster Management	<ul style="list-style-type: none">• Water Pollution• Phytoremediation• Aquatic macrophytes• Plant Physiology• Heavy Mineral separation	mahfuza.esdm@diu.edu.bd
Dr. Bimal Chandra Das	Associate Professor	Department of Information Technology & Management (ITM)	<ul style="list-style-type: none">• Network data communications with traffic fluctuations• Application conic programming in network communication• Power efficient network with traffic fluctuations• Optimization	bcdas@daffodilvarsity.edu.bd
Prof. Dr. A. K. M. Fazlul Haque	Professor	Department of Information and Communication Engineering	<ul style="list-style-type: none">• Signal Processing• Wireless Communication• Telemedicine• Computer Networking	akmfhaque@daffodilvarsity.edu.bd
Mr. Md. Taslim Arefin	Associate Dean & Associate Professor & Head	Department of Information and Communication Engineering	<ul style="list-style-type: none">• Ad-hoc networking• IP-TV• Wireless Communication• Digital Transmission	arefin@daffodilvarsity.edu.bd

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Prof. Dr. M. Shamsul Alam	Dean	Faculty of Engineering	<ul style="list-style-type: none">• Integrated modeling of energy system• Modeling of Energy System• Electricity Distribution system	deanfe@daffodilvarsity.edu.bd
Prof. Dr. Md. Shahid Ullah	Professor & Head	Department of Electrical and Electronic Engineering	<ul style="list-style-type: none">• Power System Stability• Load Flow Study• Fuel Cell	shahid.eee@diu.edu.bd
Dr. Md. Rezwanul Ahsan	Associate Professor	Department of Electrical and Electronic Engineering	<ul style="list-style-type: none">• Analog and Digital Electronic System Design• Computational Electromagnetics• Antenna and Wireless Communications• Biomedical Signal Processing and Pattern Recognition• VLSI Design (VHDL based Modeling, Simulation and Synthesis)• Hybrid Energy System Design and Optimization• Power System Reliability	ahsan.eee@diu.edu.bd

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Mr. Md. Dara Abdus Satter	Associate Professor and Associate Head	Department of Electrical and Electronic Engineering	<ul style="list-style-type: none">• Power Systems• Energy	abdussatter@daffodilvarsity.edu.bd
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Dr.Tama Fouzder	Associate Professor	Department of Electrical and Electronic Engineering	<ul style="list-style-type: none">• Electronic Product Reliability and Electronic Packaging• Lead-free Nano Composite Solders and Final Surface Finish• Antenna Engineering• Wireless Communication• FPGA• Renewable Energy	tamafouzder.eee@diu.edu.bd
Dr. Fahmida Hossain Tithi	Associate Professor	Department of Electrical and Electronic Engineering	<ul style="list-style-type: none">• Optical Fiber Communication• Fiber Nonlinearities• Optical OFDM	tithi@daffodilvarsity.edu.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr Engr Md Saifur Rahman	Professor	Department of Textile Engineering	<ul style="list-style-type: none">• Polymer Chemistry• Fiber Science• Technical Textiles	drsai fur@diu.edu.bd
Dr. Md. Mahbubul Haque	Professor	Department of Textile Engineering	<ul style="list-style-type: none">• Textile Production Methods• Fabric Manufacturing In General• Handlooms• Textile Costing• Textile Economics• Sewing Performance	drhaque@diu.edu.bd
Mr. Abdullah Al Mamun	Associate Professor	Department of Textile Engineering	<ul style="list-style-type: none">• Quality Manual• Apparel Management	mamun@daffodilvarsity.edu.bd
Prof. Md. Khairul Enam	Professor	Department of Architecture	<ul style="list-style-type: none">• Multiownership Flats and Social Aspects• Urban Land Control and Development• Housing Finance• Architectural Conservation and Planning	khairulenam@diu.edu.bd

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Professor Dr. M. R. Kabir	Professor	Department of Civil Engineering	<ul style="list-style-type: none">• Rainwater Harvesting for Safe Drinking Water• Water Management and Water Quality in Urban Environments• Sediment Transport and Hydraulics• Environmental Impact and Mitigation Strategies• Gender and Water Nexus	khairulenam@diu.edu.bd
Dr. Miah M. Hussainuzzaman	Associate Professor	Department of Civil Engineering	<ul style="list-style-type: none">• Arsenic And Iron Removal Technology• Manganese Removal Technology• Ventilation• Hydrology	drzaman.ce@diu.edu.bd
Professor Dr. M A Rahim	Professor	Department of Agricultural Technology and Management	<ul style="list-style-type: none">• Food Safety and Chemical Usage in Agriculture• Agrobiodiversity and Conservation• Nutrition and Micronutrient Deficiency• Sustainable Agriculture	headdas@daffodilvarsity.edu.bd,

CHAPTER 07

POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Professor Dr. Muniruddin Ahmed	Professor & Head	Department of Pharmacy	<ul style="list-style-type: none">• Drug Utilization• Bioactivity Guided Isolation• Pharmacological Screening of Natural Products• Penetration pattern of steroid drugs	drmuniruddin.ph@diu.edu. bd
Prof. Dr. Md. Ekramul Haque	Professor	Department of Pharmacy	<ul style="list-style-type: none">• Synthesis of Natural Compounds• Regioselective Chemistry• Biological Activity Screening• Phytochemical Analysis• Anticancer Activity of Natural Products	dreklam.pharmacy@diu.ed u.bd
Dr. Mohammed Shafikur Rahman	Associate Professor	Department of Pharmacy	<ul style="list-style-type: none">• Analysis of Protein and Peptide• Assay of Caspase activity• Analytical method development• Phytochemical and Biological Analysis of plants• Comparative analysis of generic products	shafikur.pharmacy@diu.ed u.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Sharifa Sultana	Associate Professor	Department of Pharmacy	<ul style="list-style-type: none">• Development of extended release matrix Tablet.• Degradation kinetic studies of non pharmacopoeial drug.• HPLC-method development and validation of non pharmacopoeial drug.• Phytochemical investigation of plants.• In-vitro investigation of different dosage form.	sharifa@daffodilvarsity.edu.bd
Dr. Md. Sarowar Hossain	Associate Professor	Department of Pharmacy	<ul style="list-style-type: none">• Identification of Insulin and Leptin Enhancing Agents in Plant Sources for Energy Homeostasis Regulation• Genetic Mutations in Sim1 and Mc4r Genes in Obesity• AAV Vector-Based Expression of the Sleepy Gene for Sleep Regulation• Forward Genetic Screening for Causative Genes in Mouse Models	sarowar.ph@diu.edu.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Professor Dr. Md. Bellal Hossain	Dean (In-Charge) & Professor	Faculty of Allied Health Science	<ul style="list-style-type: none">• Dietary Interventions for Cardiovascular Disease Patients• Nutritional Status of Vulnerable Populations• Food Safety Development of Functional Food Products• Processing Technology and Quality Assessment	drbellal@daffodilvarsity.edu.bd
Dr. A B M Alauddin Chowdhury	Professor & Head	Department of Public Health	<ul style="list-style-type: none">• Impact of BNF Grants on Sustainable Development Goals (SDGs)• Nutritional Status of Orphanage Children in Urban Bangladesh• Factors Influencing Smokeless Tobacco Consumption• Childhood Obesity and Overweight in Urban Bangladesh	dralauddin@daffodilvarsity.edu.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Md. Shahjahan	Professor	Department of Public Health	<ul style="list-style-type: none">• Effectiveness of Training of Trainers (TOT) for Traditional Birth Attendants (TBAs)• Women's Work and Fertility• Impact of Maternal and Child Healthcare Education• Non-Communicable Disease (NCD) Risk Factors	drshahjahan@daffodilvarsity.edu.bd
Dr. Salamat Khandker	Professor	Department of Public Health	<ul style="list-style-type: none">• Health Impact of Indoor Air Pollution among Rural Bangladeshi Women• Hospital Waste Management System Feasibility and Cost• Arsenic Epidemics in South East Asian Region• Cholera Epidemiology	drsalamat@daffodilvarsity.edu.bd
Dr. Nadira Mehriban	Associate Professor	Department of Public Health	<ul style="list-style-type: none">• Nutritional Status of Children in Conflict Zones• Factors Influencing Low Birth Weight• Community Participation in Climate Vulnerability and Adaptive Capacity	drnadira@daffodilvarsity.edu.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Nizam Uddin	Associate Professor and Head	Department of Nutrition and Food Engineering	<ul style="list-style-type: none">• Food Adulteration• Heavy Metal Pollution• Public Health• Environmental Pollution• Atomic Absorption Spectroscopy• Thermodynamics and Reaction Mechanism• Molecular Dynamics Simulation	nizamu.nfe@diu.edu.bd
Ms. Liza Sharmin	Professor and Dean	Department of English	<ul style="list-style-type: none">• English for Specific Purposes• Enhancing teaching effectiveness• Critical thinking and Problem solving	liza.eng@diu.edu.bd
Professor A. M.M. Hamidur Rahman	Professor	Department of English	<ul style="list-style-type: none">• Language Policy and Foreign Language Teaching• English for Academic and Educational Purposes• Controversies in English Language Teaching• Pronunciation Challenges for Bengali Learners	hamidurrahman@diu.edu. bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Binoy Barman	Professor	Department of English	<ul style="list-style-type: none">• Effectiveness of Instructional Grouping• Metacognitive Strategies for Second Language Speech Development• IoT Integration in Higher Education• Digital Learning Environments• Technology in Language Research	drbinoy@daffodilvarsity.edu.bd
Dr. Mohammed Shamsul Hoque	Professor	Department of English	<ul style="list-style-type: none">• Long-Term Effects of Phonological Awareness and Phonics• Multilingual Contexts• Teacher Training and Pedagogy	hoque.eng@daffodilvarsity.edu.bd
Dr. Md. Mostafa Rashel	Associate Professor	Department of English	<ul style="list-style-type: none">• Language Documentation• Morphosyntactic Typology• Endangered Indigenous Language• Psycholinguistics• Sociolinguistics	rashel-linguist@daffodilvarsity.edu.bd

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POTENTIAL SCHOLARS OF DIU

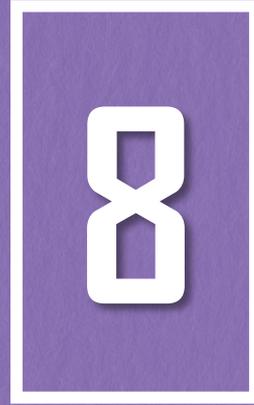
NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Kudrat-E-Khuda Babu	Professor & Head	Department of Law	<ul style="list-style-type: none">• Trade and Investment Agreements and Environmental Protection• Medical Waste Management and Human Health• Ship-breaking Yards and Environmental Impact• Artificial Intelligence (AI) and Governance Challenges	kekbabu.law@diu.edu.bd
Professor Dr. Golam Rahman	Professor	Department of Journalism, Media and Communication	<ul style="list-style-type: none">• Development Communication• Health Communication• Media Rights• Media Management and Journalism	golamr07@hotmail.com
Mr. Aftab Hossain	Assistant Professor and Head	Department of Journalism, Media and Communication	<ul style="list-style-type: none">• Social Media & Network• Media-Culture-Society• Film and Television	aftab.jmc@diu.edu.bd

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POTENTIAL SCHOLARS OF DIU

NAME	DESIGNATION	FACULTY/ DEPARTMENT	RESEARCH INTERESTS	EMAIL
Dr. Md. Abdul Kabil Khan	Associate Professor	Department of Journalism, Media and Communication	<ul style="list-style-type: none">• Media Convergence in Bangladeshi Newspapers• New Media Practices in Bangladesh• Journalism Education in Bangladesh• Mobile Journalism in Bangladesh	kabilkhan.jmc@diu.edu.bd
Mr. Md. Fouad Hossain Sarker	Associate Professor and Head	Department of General Educational Development	<ul style="list-style-type: none">• Corporate Social Responsibility• Micro Credit• Gender Issues• E-governance and E-learning	fouadsarker@daffodilvarsity.edu.bd
Dr. Md. Arafe Zawad	Associate Professor and Head	Department of Physical Education & Sports Science	<ul style="list-style-type: none">• Curriculum,• Fitness,• Health,• degenerated disease,• longevity,• TQM,• High performance of Athlete,• basic Research	drarafe.pess@diu.edu.bd

CHAPTER



ACHIEVEMENTS OF DAFFODIL INTERNATIONAL UNIVERSITY

Despite being a relatively young institution, DIU has swiftly cultivated a robust research culture, solidifying its status as a research-intensive university in Bangladesh. This chapter aims to spotlight DIU's remarkable accomplishments, which have been significantly shaped by its scholarly publications.

CHAPTER 08

ACHIEVEMENTS OF DAFFODIL INTERNATIONAL UNIVERSITY



TIMES HIGHER EDUCATION IMPACT RANKINGS-2023

DIU ranked 2nd in Bangladesh and within top 401-600 Global Universities by Times Higher Education Impact Rankings-2023



UI GREENMETRIC WORLD UNIVERSITY RANKINGS-2022

DIU ranked as the 191th Most Sustainable University in the world Ui-GreenMetric World University Rankings-2022



QS WORLD UNIVERSITY RANKINGS-2024

DIU ranked 3rd among private universities in Bangladesh and within top 1201-1400 Global Universities by QS World University Rankings 2024

CHAPTER 08

ACHIEVEMENTS OF DAFFODIL INTERNATIONAL UNIVERSITY



QS ASIA UNIVERSITY RANKINGS 2023

DIU ranked 3rd among private universities in Bangladesh and within top 351-400 Asian universities by QS Asia University Rankings 2023.



NO. OF SCOPUS INDEXED PUBLICATIONS 2022

DIU Ranked 2nd in Scientific Documents publications (2022) among all public & private universities in Bangladesh.



WURI:TOP 50-STUDENT MOBILITY AND OPENNESS

DIU Ranked within top 50 world universities (Student Mobility and Openness) by WURI Ranking 2023



RESEARCH UPDATE

**Faculty of Graduate Studies (FGS)
Daffodil International University**

Daffodil Smart City
Ashulia, Dhaka, Bangladesh
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