



Daffodil
International
University

SUSTAINABILITY REPORT 2018



DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH
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BACKGROUND



Universities have a vital role to play in addressing these critical global challenges and achieving the Sustainable Development Goals. Universities have a responsibility through their teaching to equip the next generation of leaders, innovators and thinkers to understand the global challenges facing the world and the role they can play in rising to meet these challenges. Through their research and training of research leaders, universities are at the forefront of finding sustainable social, economic, environmental and technical solutions to global problems. Finally, through their own operations universities can pioneer innovation and can set an example to other sectors and businesses.

SUSTAINABLE DEVELOPMENT GOALS (SDGs)





MAPPING THE POLICIES AND ACTIVITIES OF DAFFODIL INTERNATIONAL UNIVERSITY TO THE SUSTAINABLE DEVELOPMENT GOALS



At Daffodil International University, we believe that we have a role in supporting our government to meet the SDGs. We are achieving this through our operating culture and activities and our actions on-the-ground.



Goal	Our Commitments	Activities
 <p>1 NO POVERTY</p> <p>End poverty in all its forms everywhere</p>	<p>Creating awareness in building a society without poverty through ensuring the employment of graduates through power of quality education and lifelong skills</p>	<ul style="list-style-type: none"> • Bangladesh is a country where most of the people live in rural areas and poverty rate is also higher in those areas. Without improving the condition of these rural people, the overall sustainable development would not be possible. Daffodil International University as a higher education institute has focused and put emphasis on educating the youths of these rural areas (Currently our 90 percent students are from rural areas of Bangladesh). More than twenty thousand families have transformed their condition from poor to middle income and affluent citizen of the country as the graduates of DIU could reduce poverty of their families through employment. • DIU made contribution in terms of creating Daffodil Foundation which has been conducting a program namely: “Jeebika–Livelihood and Human Development Program” in association of Centre for Zakat Management which aims to benefit about 500 families to eradicate their poverty status through various lifelong practical initiatives and livelihoods based on their skills, abilities and employment.
 <p>2 ZERO HUNGER</p> <p>End hunger, achieve food</p>	<p>Developing skilled human resources in nutrition and food sector and assisting the Government of Bangladesh to ensure food security and zero hunger through</p>	<ul style="list-style-type: none"> • Launching relevant academic Department: DIU has established Department of Nutrition and Food Engineering (NFE) with an aim to provide skilled and educated manpower in this area for ensuring safe, nutritious and cheap food to cater the need of the common people. • Daffodil International University introduced a project namely Daffodil Agro Complex (Fruit plant cultivation in sandy soil) in order to develop societal, academic and skill based professionals under Agro Sectors and reduce


<p>security and improved nutrition, and promote sustainable agriculture</p>	<p>conducting research on this fields. Creating awareness among the stakeholder is also given emphasis.</p>	<p>the nutrition gap among people of the country. Most of the fruit plants are broad leaved and evergreen which will absorb more CO₂ and release more O₂ and consequently will support creating a clean and healthy environment.</p> <ul style="list-style-type: none"> • Providing sustainable, nutritious and affordable food choices on campus through Daffodil Startup Restaurant and Cafe • The relevant Departments of DIU arranges various events related to issues of SDG 2, among them: seminar on "Change the future of migration, increase investment in food security and rural development"; seminar on 'A zero hunger world by 2030 is possible' and Workshop on "Food Safety and Food Security - Public Health Importance" are worth mentioning. • NFE researchers are doing joint research with the researchers of Bangladesh Agriculture University to ensure food security. • Introducing measures to ensure nutritious food and reduce food waste on campus. For example, the Social Business Students Forum of DIU developed a baby food called 'Pedicare'. This project was awarded 2nd prize in the 'social business creation competition' organized by HEC Montréal's Social Business Centre (IDEOS) in Canada. The winning team identified that there is only a limited selection of baby food products available and affordable in local markets, as they are imported. As a result, many parents cannot afford healthy food supplements for their growing babies. To address the problem, the students developed a baby food product prototype called Pedicare that is a highly nutritious and low-priced supplementary food for children aged 6 months to 3 years. Child nutrition is a major issue for Bangladesh because malnutrition leads to stunting and wasting in children. In Bangladesh, 36% of children under five are stunted and 14% are wasted, which is the highest in Asia. 33% are underweight. • To improve the identification and scale-up of agricultural technologies in Bangladesh Winrock International signed MoU with Bangladesh Venture Capital Ltd.
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<div data-bbox="205 261 394 448"> <p>3 GOOD HEALTH AND WELL-BEING</p>  </div> <p>Ensure healthy lives and promote wellbeing for all at all ages</p>	<p>To create awareness in building a society with good health and wellbeing through the power of quality education, research and ensuring employment (alternative employment as well-entrepreneurship) of graduates.</p>	<ul style="list-style-type: none"> • Considering the significance of this issue, DIU established a Separate Department namely Department of Public Health with the aim of developing skilled public health professionals capable of solving health problems through research & advocacy to promote a multidisciplinary approach to Public Health. • Providing access to low cost primary health and wellbeing services on campus through DIU medical centre • Providing Insurance facility for teachers, staff, students and their guardians • The relevant Departments organize regular events, like: workshop on “Healthy Life Healthy Diet”; awareness program on “Anti-Drug Campaign and Blood Donation Program”; Mass signature collection program on Anti-Tobacco Campaign; seminar on Hepatitis- B & Cervical Cancer Vaccination; seminar on “Nipah Virus: A Threat to Human Health”; Seminar on ‘Population Aging across the world: Challenges, Opportunities and implications’; Seminar on “Safe Food for Good Health during Ramadan”; “Thalassemia Prevention & Carrier Detection Campaign” etc. to create awareness among students, guardians and teachers regarding importance and ways of good health and well-being. • Ensuring appropriate practices are in place for dealing with hazardous substances and fire incidents • Daffodil Institute of Social Sciences (DISS) has been set up with the objective to develop the young and destitute children with required industry skills, professional etiquette and mind set up for ensuring their future life with good health and as a good human being. • Implementing ‘no smoking’ policies on campuses • Research Publication on Dementia Related Problems and Prevention
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		<ul style="list-style-type: none"> • DIU donated fund to Kidney Foundation to purchase dialysis machine
 <p>4 QUALITY EDUCATION</p> <p>Ensure inclusive and equitable quality education and promote life-long learning opportunities for all</p>	<p>Creating a commitment to the society to ensure and implement the quality of teaching-learning at DIU which in turn will provide quality graduates to be employed both at home and abroad as well as creating awareness and involving tertiary education stakeholders to play a significant role in achieving the goal</p>	<ul style="list-style-type: none"> • Supporting vulnerable and disadvantaged people, especially from rural areas (currently 90% of DIU students are from rural areas), to access in the university, including persons with disabilities, indigenous peoples, and people experiencing financial difficulty. DIU also provides quality higher education at a very low cost in comparison with most expensive private universities in Bangladesh. • DIU established Daffodil Institute of Social Sciences (DISS) to ensure access of underprivileged children to quality education • Established 'Institutional Quality assurance Cell' at DIU which has been working to ensure the quality of education, teaching-learning, research, student intake, sustainable infrastructural development etc. since its inception. • DIU always invites and hosts mega events like 21st International Convention on Students Quality Control Circles-2018 (ICSQCC-2018) where about eight hundred local and foreign participants took part. Bangladesh Society for Total Quality Management (BSTQM) in association with Daffodil International University (DIU) organized the convention from May 03-06, 2018 in Bangladesh. Hosing ICT Carnival, Regional Programming Contest, International Social Business Summer Program, Summer Camp, Winter Camp etc. are among others. • Project "Ka" spreading the light of IT Knowledge to each corner of the country



 <p>5 GENDER EQUALITY</p> <p>Achieve gender equality and empower all women and girls</p>	<p>Creating awareness and taking initiatives to ensure gender equality within the institution as well as in the country</p>	<ul style="list-style-type: none"> • Implementing workplace gender equity, including those for improving the representation of women in university leadership positions and senior academic roles • Implemented 'no gender pay gap' • Following and implementing the on campus Anti-harassment policy, especially for women • DIU arranges various events, such as, Mom-Preneur, a special initiative to empower the mothers of the kids through becoming entrepreneur; formed human chain to raise the Voice for the Elimination of Violence against Women; seminar on "Social Awareness and Ethical Development of female students" etc. • Participation and arranging in campaigns against corruption, drugs, women repression and acid throwing that created a mass awareness against corruption, drugs, women repression and acid throwing which will help build a safe society irrespective of gender castes and creeds.
 <p>6 CLEAN WATER AND SANITATION</p> <p>Ensure availability and sustainable management of water and sanitation for all</p>	<p>Conducting research and creating awareness for ensuring clean water and proper sanitation</p>	<ul style="list-style-type: none"> • DIU utilizes the used water to be re-used in toilet flush which saves a huge amount of clean water from being wasted. • Providing free drinking water for students, staff and visitors • Developing appropriate drainage system to minimize pollution



<p>7 AFFORDABLE AND CLEAN ENERGY</p>  <p>Ensure access to affordable, reliable, sustainable, and modern energy for all</p>	<p>To conduct research and help relevant authority to implement the research outcome to ensure clean and safe energy for all</p>	<ul style="list-style-type: none"> • Students of Department of Environmental Science and Disaster Management are conducting research to extract energy (fuel oil) from used and left-over plastic and plastic products. • DIU has set up solar panel to produce solar power and solar dryer used by the lab of Department of Nutrition and Food Engineering in drying different food items which saves a good amount of electricity and carbon emission. • DIU has bio gas plant and fossil fuel technology which reduces the waste materials and ensures the proper re-use of waste materials for producing natural gas and small amount of power as well. This technology helps the environment by not making pollution.
<p>8 DECENT WORK AND ECONOMIC GROWTH</p>  <p>Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p>	<p>To prepare and develop the graduates and future leaders for economic development of the country through considering the well-being of the environment and its sustainability</p>	<ul style="list-style-type: none"> • DIU established a separate academic Department namely “Department of Innovation and Entrepreneurship” with the aim of developing skilled graduates who can create alternative employment through their entrepreneurial mindset and create employment opportunities for others as well. • Organizing ‘Industry-Academia Lecture Series for Entrepreneurship Development’ to prepare the students for job market and ensuring their employment. As outcome of this event, various organizations are conducting spot recruitment at DIU for employing DIU graduates. • Providing appropriately positioned and supported scholarship and financial assistance schemes for students in need • Established Expert Retired People's Association (ERPA)-Bangladesh: Involving the retired expert people in various significant projects for socio-economic development, Bringing world-class standards of professionalism and a strong corporate identity with the technical skills and knowledge of retired experts.


		<ul style="list-style-type: none"> • DIU ensures life insurance coverage for all staff, students and their guardians as well. • Initiated the “Startup Idea for Fund” to support innovative ideas and create an entrepreneurial platform where students are provided with fund, incubation, office space, business networking, mentoring, and legal support, etc. All these initiatives will create an entrepreneurial environment for students to develop their entrepreneurial leadership skills in line with moving towards the vision of Digital Bangladesh.
 <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> <p>Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p>	<p>To strongly strive for creating enabling environment for sustainable and inclusive development through research and innovations</p>	<ul style="list-style-type: none"> • Introduced One Student One Laptop Project at DIU: The initiative helps students to be well attached with the updated knowledge and applications of ICT sector and can play a vital role in their future career. It also helps to build ICT based nation. • DIU innovated and launched Helicam/quadcopter. This Spy Quadcopter/Helicam was built after three months restless efforts from the students of DIU. Spy quadcopter or Helicam is a remote-controlled mini helicopter • Striving to building sustainable and resilient infrastructure that supports wellbeing and minimizes environmental impact • Implementing sustainable IT infrastructure in all the campuses • DIU students innovated Solar Car. The Solar Car project won the best future award in 2014-2015 Electric Solar Vehicle Championship in India. • Humanoid Robot “Dbot” was innovated by DIU students: The aim of this robot is to help in the education sector, especially young children learning numbers and alphabets. Along with many other features this human shaped robot can help to learn and it can interact with user. Besides English ‘Dbot’ can follow instructions in native language. It can fulfill the

		<p>purpose of entertainment also. Its use is being extended progressively. The robot is a result of one year's research and development.</p> <ul style="list-style-type: none">• DIU has recently set up Innovation Lab in its permanent campus at Ashulia, Dhaka.• DIU hosted the "Youth4SDG Asia Leadership Program 2019 "in Bangladesh organized by Youthink Center China with active participation of 18 talented students from 18 different universities in China. Under this program, the young leaders worked to create the social business plan after surveying different villages of Bangladesh under case study. They also visited the small enterprises, social business project, and had sessions on Social Business model Canvas etc.• DIU researchers innovated a new technology for preserving seasonal fruits and vegetables for a long time. The technology called, 'Multi Community Solar Tunnel Dryer Plant', is the outcome of a research conducted with the cooperation of Centre on Integrated Rural Development for Asia and the Pacific.• DIU researchers innovated a model namely "Web-based Electricity Cost Modeling" for Capacity Development and Good Governance. The proposed model will help to empower the consumers to ensure their rights• DIU signed a MoU with Bangladesh Atomic Energy Commission (BAEC) for cooperation and strengthening education and research in the field of Nuclear Science and Engineering and related Programs.• DIU arranged a 2-day long Science Innovation Fair 2017-2018 to build a knowledge-based society in the country. For knowledge-based society we need creativity and this kind of science fair can open the path of creativity.
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 <p>10 REDUCED INEQUALITIES</p> <p>Reduce inequality within and among countries</p>		<ul style="list-style-type: none"> • Gradually managing the pay gap between lowest and highest paid staff • Providing a supportive, inclusive and safe working and learning environment for all irrespective of gender, religion, race, region, social background etc.
 <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p> <p>Make cities and human settlements inclusive, safe, resilient and sustainable</p>	<p>DIU researchers to collaborate with local government, citizen and urban planner to ensure a livable and safe city for all</p>	<ul style="list-style-type: none"> • Providing safe and affordable on-campus hostel facilities for students and Planning the accommodation facilities for staff as well • Implemented a green campus concept where more than sixty percent land area has been kept open and green • DIU arranges various events on a regular basis, such as, learning session on "Road Safety & Social Engagement of Students"; workshop on 'Smart City-Good City-Our City' which created awareness among mass people and policy makers; Round Table Discussion on "Effective Traffic Management in Bangladesh: A Catalyst for Inclusive Growth of the Country"; Traffic Awareness and Road Safety by DIU Air Rover Scout; Human Chain Program demanding safe road which created awareness among mass people and policy makers etc.
 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	<p>To make the stakeholders aware of the issue: sustainable consumption and production considering the well-being of the nature</p>	<ul style="list-style-type: none"> • Initiated Plastic products recycling project • Taking measures to reduce all wastes including hazardous waste • Ensuring safe practice for hazardous waste handling and disposal • Incorporating sustainability and ethical considerations into purchasing policies, procedures and activities

<p>Ensure sustainable consumption and production patterns</p>		
 <p>Take urgent action to combat climate change and its impacts * (* in line with UNFCC)</p>	<p>Working to create awareness of the bad effects of climate change and doing research to tackle the challenges to be faced due to climate change as well as undertaking some activities related to this.</p>	<ul style="list-style-type: none"> • Road Beautification by Daffodil International University: It encouraged others to stand against global warming issue and work for a green earth • Tree Plantation Program: The program helped to develop a green environment in the campus; Trees produce oxygen and removes carbon dioxide and contaminants from the air and helps human being to live; Planting trees also help to cool the environment and surroundings in the summer which results in less use of air conditioners and save a huge amount of energy • Incorporating aspirational environmentally sustainable design aspects into capital works • Green Transport Celebration and Tree Plantation which has direct impact by reducing the carbon emission • Arranged awareness building seminar on 'Health effect of climate change in Bangladesh'
 <p>Conserve and sustainably use the oceans, seas and</p>		

marine resources for sustainable development		
 <p>15 LIFE ON LAND</p> <p>Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p>	<p>Contribute to the achievement of the Sustainable Development Goals by ensuring our campuses and major programs are environmentally sustainable and socially inclusive</p>	<ul style="list-style-type: none"> • DIU established a separate academic department namely: Department of Environmental Science and Disaster Management with the aim of taking on the challenges of restoring the degraded ecosystems caused already to our environment by training skilled and committed experts who can work with governmental and non-governmental agencies, by undertaking research to provide accurate data to help us to survey the extent of the damage and assess different strategies to overcome it, and to champion projects that aim at low-cost, sustainable remedies. • To create environmental awareness through cleanliness of young minds, Daffodil International University observed "Cleaning Festival 2012" • Organized Dialogue on 'Rohingya Crisis: Challenges and Way Forward' at Daffodil International University • DIU ranked 1st among Bangladeshi universities as well as universities in South Asia as per UI GreenMetric World University Rankings-2018 which gives emphasis on campus sustainability performance.
 <p>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</p> <p>Promote peaceful and inclusive</p>	<p>Making the stakeholders aware of the challenges of SDG 16 and ensuring their engagement in implementing peace and justice in the society.</p>	<ul style="list-style-type: none"> • Developing policies, procedures and plans to ensure the campus is safe for all staff, students and visitors • Ensuring that the policies and culture of the institution clearly indicate that bribery, corruption, violence, crime and acts of terrorism get zero tolerance

<p>societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels</p>		<ul style="list-style-type: none"> • YES Group (Youth Engagement & Support) , an Anti-corruption student organization of Transparency International Bangladesh (TIB) has been officially started its journey at Daffodil International University through colorful orientation & Oath taking program held on 12 September 2018 at 71 Milonayoton of the university. This young YES group members are working to ensure a corruption-free and transparent society. • Organizing cross-cultural activities on campus peacefully • Ensuring that all staff and students have access to justice and information about their rights • Department of Law of DIU organized a special program on “Lecture on Media Laws: Special Focus on ICT Laws” which created awareness among students and faculties regarding ICT laws of the country.
<p>17 PARTNERSHIPS FOR THE GOALS</p>  <p>Strengthen the means of implementation and revitalize the global partnership for sustainable development</p>	<p>Utilizing the global partnership to contribute towards implementation SDGs</p>	<ul style="list-style-type: none"> • Daffodil International University has a strong partnership with more than four hundred universities and educational institutes around the world in order to jointly work for sustainable research and development. • It also has effective partnership with various industries to undertake research on their practice of sustainable and environment-friendly industrial production process.