



Beni-Suef University Sustainability Report 2023



Introduction

Overview

Beni-Suef University (BSU) is an Egyptian University that has three campuses; the main university campus, 320 acres complex and the Industrial Education Complex. The main university campus as well as some separated buildings and faculties in nearby regions were established as a branch of Cairo University in the city of Beni-Suef in 1981 [<https://www.usnews.com/education/best-global-universities/egypt?name=>]. The Beni-Suef branch became independent from Cairo University and became a separate university according to Republican Decree No. 84 of 2005. The university has 33 faculties and institutes including unique interdisciplinary ones in Egypt and the Middle East.

One of the BSU primary goals is to be a globally distinguished university committed to social responsibility and sustainable development. BSU aims to deliver societal values both locally and on a global scale through Education, Research, and Academic service (outreach) and Integrated Management (Stewardship). Where, introducing the integrated 17 Sustainable Development Goals (SDGs) as part of the university's operational framework is deemed as necessary towards achieving the university's five **Strategic Targets (STs)**. Noteworthy, the BSU strategy of integrated management between society, environment, education, governance and research ranked the university 374 in the International Ranking of Green Universities and the second sustainable one in Africa last year..

Strategic Targets (STs for BSU)

ST1: Energy and Environment Sustainable Development which complies with 4 SDGs: (SDG 6: Clean Water and Sanitation: Manage water sustainably for everyday use; SDG 7: Affordable and Clean Energy, increase accessibility to sustainable energy; SDG 11: Sustainable Cities and Communities, create cities and safe settlements; and SDG 13: Climate Action, stop global warming).

ST2: Food and Health Sustainable Development which complies with 2 SDGs: (SDG 2: Zero Hunger, eliminate starvation and establish food security; and SDG 3: Good Health and Well-being, promote health and well-being for all).

ST3: Education Sustainable Development which complies with 2 SDGs:: (SDG 4: Quality Education, promote learning opportunities; and SDG 17: Partnerships for the Goals, build collaboration agreements at the international level towards sustainable developmentll).

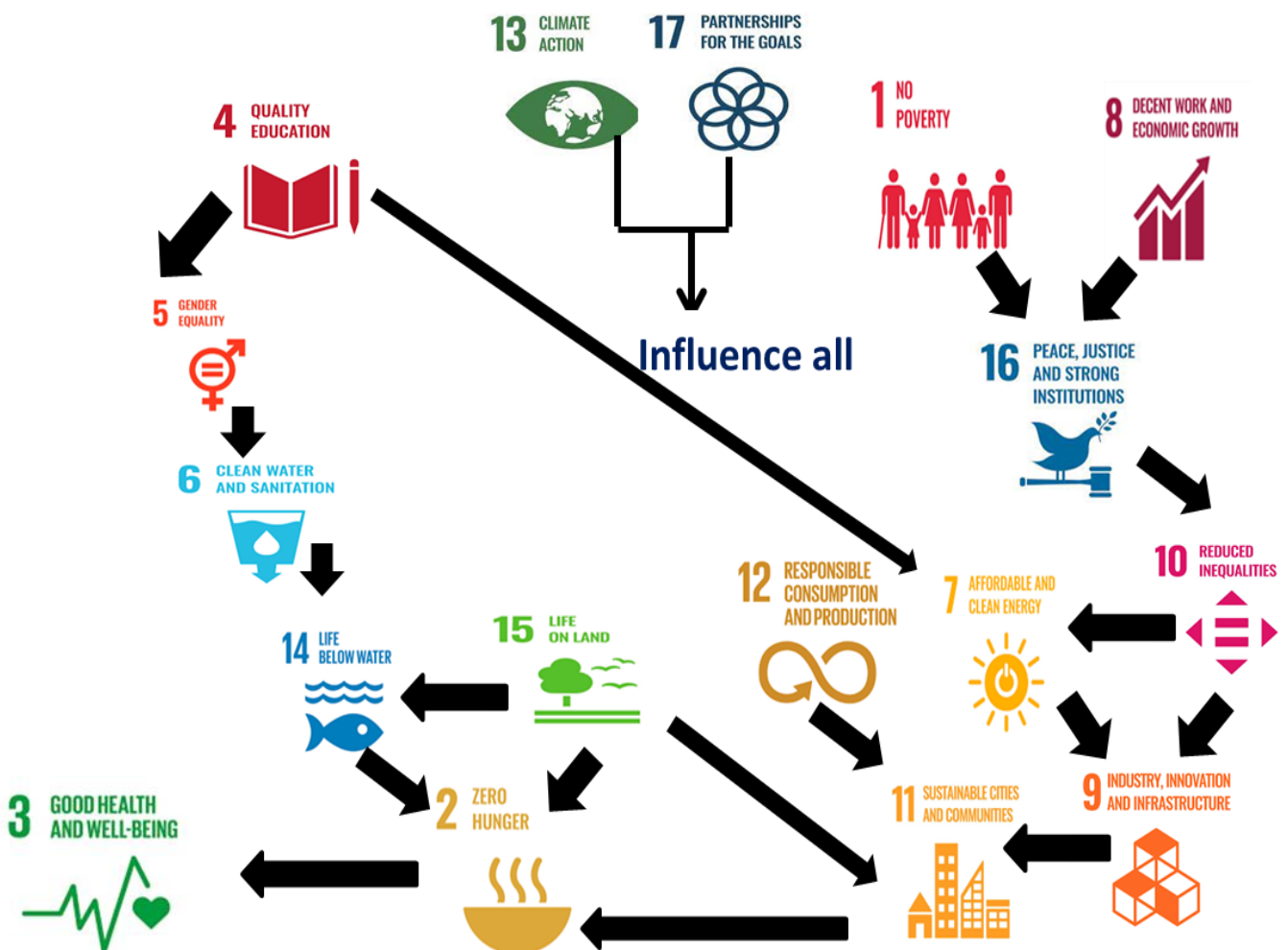
ST4: Innovation Management Sustainable Development which complies with: (SDG 9: Industry, Innovation and Infrastructure, develop sustainable industries and innovation).

ST5: Organization Management towards Excellence which complies with 2 SDGs: (SDG 1: No poverty, eliminate poverty; and SDG 11: Sustainable Cities and Communities, create cities and safe settlements).

In addition, BSU also conducts activities that support all other SDGs, including SDG 5 Gender Equality:, SDG 8 Decent Work and Economic Growth, SDG 10 Reduced Inequality, SDG 14 Life Below Water, SDG 15 Life on Land, SDG 16 Peace and Justice Strong Institutions, and SDG 17 Partnerships for the Goals: Build collaboration protocols at the regional, national, and international level towards sustainable development.

Influences among the 17 SDGs

- ❑ All 17 SDGs are interlinked, and these interactions could act as either enablers or bottlenecks to achievement of other goals.
- ❑ The climate action goal (SDG 13) and the partnerships goal (SDG 17) are the major general influences and enablers of all the other SDGs.
- ❑ The health and wellbeing goal (SDG 3) is the overarching goal across all the SDGs to which all other SDGs contribute.
- ❑ Below the two overarching, all-influencing SDGs (13 and 17), the three key influential SDGs are those for education (SDG 4), poverty reduction (SDG 1), and work and economy (SDG 8).
- ❑ The goal for water, sanitation and hygiene (SDG 6) is embedded among the other SDGs, and thus is both influenced and influences other SDGs.
- ❑ The following figure of the 17 SDGs reflects the findings that all the SDGs are interrelated. Each goal could be considered at several scales, such as global (e.g. climate change issues), national (e.g. policy), and local (e.g. community participation).



The Times Higher Education in the United Kingdom conducts a ranking of university influence and measures the contribution of universities based on the 17 sustainable development goals announced by the United Nations.

According to the conditions to participate in this ranking and in compliance with the five strategic targets of the university, we selected 8 sustainable development goals as evaluation items including; the first sustainable development goal of No poverty, the second goal of Zero Hunger, the sixth goal of Clean water and Sanitation, the seventh goal of Affordable and Clean Energy, the twelfth goal of Responsible Consumption and Production, the thirteenth goal of Climate Action, the fourteenth goal of Life Below Water and the seventeenth goal of "Global Partner.

Based on the brief description of the 17 sustainable development goals, this report illustrates the university's four aspects of research, teaching, academic service, and campus governance. It also elaborates on the university's commitment to social responsibility, the efforts to promote the sustainable development of humanity, and implementing of the goals of sustainable development within the community

End poverty in all its forms everywhere

01



- ❖ **BSU collaborates with more than 55 governmental organization and NGOs** such as Center of Excellence for Water, a USAID funded project, Science, Technology and Innovation Funding Authority, The Ministry of Social Solidarity, the scholarships sector of the Ministry of Higher Education and Scientific Research, Arab-African Council for Integration and Development (AACID), Egypt Center for Entrepreneurship and Innovation, Al Salam International Company for Agricultural Development and Investment, Rotary Club, The Coptic Evangelical Organization and the Ataa Fund, and Beni-Suef Renaissance Foundation, to provide help for needy students financially or by other means.
- ❖ **Scholarship applicants and their admission criteria and tracking achieve the goal of equality** and ensure the education rights of poor and disadvantaged groups and to improve the admission opportunities of disadvantaged students achieving the social solidarity, the priority of exempting from tuition fees is given for the first category of unable and poor students that involves; orphans, outstanding students in high school and technical diplomas, and outstanding athletes, sons of martyrs, sons of university employees, and students with special needs.
- ❖ **The university provides and supports the required health, medical and educational services by citizens in the most need villages.** The university also improves the standard of living, especially for those who are unable, through many comprehensive convoys and developing slums and eliminating illiteracy
- ❖ **The Social Solidarity Unit within BSU serves university students and provides support to them,** especially those of special needs, by providing facilities, services, in-kind and cash support, and soft loans to establish micro-investment, production or service projects. It bears the tuition fees for the unable and poor students. It seeks the help of students to eradicate illiteracy outside the university. It also organizes charitable clothing and shoes exhibitions for free or for a nominal fee

- ❖ In 2021-2022, the university allocated 50 scholarships for the African students in the developmental and vital fields that the continent of Africa needs.
- ❖ With the COVID-19 pandemic, BSU lived through a crisis that was never faced before and yet has delivered beyond expectations during the toughest of times and maintained its support till the end.
- ❖ Beni-Suef University cooperates with governorates, localities, and civil society institutions in the slum development project. Whereas in 2021 and 2022, more than 10 of the most need villages were developed, each with a population of about 5,000 people
- ❖ Beni-Suef University takes the lead in eradicating illiteracy at the level of Egyptian universities in October 2021 and July 2022 sessions, through achieving the education of 9,318 and 216,42 illiterate students, respectively.

500

Undergraduate and postgraduate teaching courses related to SDG1 are available at BSU

100 %

BSU financially supports all of the enrolled students with 20 % reduction in the tuition fee

50 % and 20 %

Reducing 50% of tuition fees for all sons of university employees in traditional programs, as well as a 20% discount for special programs.

> 20,000

The university annually provides full scholarships for more than 20,000 low-income and needy students

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



Zero Hunger

02

Center for Agricultural Research and Products comprising 13 production units

- ❖ It aimed at linking the educational process inside the university with the outside community. For example, 3 production units with their outlets are available at Faculty of Agriculture namely; honey unit, detergents unit and seedlings unit.
- ❖ Their products are available for student services and the external community in the governorate to sell healthy food products under the supervision of professors, specialists and technicians from the university at competitive prices for the local market.

Cooperation and successful partnership between BSU and the Ministry of Agriculture and Agricultural Reclamation in the agricultural innovation project. Such cooperation aims to:

- ❖ Increase the income of 10,000 smallholder farmers in Upper Egypt in the field of medicinal and aromatic plants, onions, garlic and chili peppers.
- ❖ The planned activities aim to improve practices at the production stage and raise the value of the final products and provide support in solving marketing challenges for both international and local trade.

Development of skills of the university's students and providing them with the latest information in the agricultural field. For example;

- ❖ Using simulation models to improve water productivity and yield in dry areas,
- ❖ Organizing training courses for the use of modern and non-traditional techniques in the agricultural sector, including the applications of area sciences, geographic information systems and remote sensing
- ❖ Providing different training courses about soilless farming and Aquaponics.

The presence of a cattle farm at Faculty of Veterinary Medicine and the produced milk

- ❖ It is used by the Center of Production and Student Services in the main campus of BSU to produce dairy products and their derivatives.
- ❖ These products are sold through 4 outlets distributed in the main campus, the 320 acres complex and the industrial education complex of BSU.

Beni-Suef University is one of the most important universities linked to the agricultural environment such as:

- ❖ Faculty of Agriculture has a number of diverse departments and four basic programs namely; plant production, animal and poultry production, food and dairy industries and biotechnology.
- ❖ Faculty of Agriculture implements 8 training courses in various fields including; i) animal and agricultural production, ii) feed manufacturing, iii) production of microbial vaccines and fertilizers, iv) soap and disinfectants manufacturing, and v) environmental safety, occupational health and security of laboratories
- ❖ Faculty of Science won a research project of the production of biofertilizers based on agricultural wastes with funding of \$150000 from the Science and Technological Development Fund and the American National Academy. The project was chosen from the top five projects at the level of Republic and it correlates with the state's national strategy 2030 which aims to encourage organic agriculture and leaving the conventional chemical fertilizers.

Waste Recycling Center

- ❖ It is considered one of the production units which is interested in separating useful materials
- ❖ The center is concerned with treating organic materials in the most appropriate and best way to produce high quality organic fertilizer.

Various initiatives aimed at producing safe food

- ❖ Launching the “Clean Agriculture” initiative through the cooperation of Faculty of Agriculture with the Directorate of Agriculture in Beni Suef and the Agricultural Research Center in the village of Sads.
- ❖ The university's participation in the 4peer1000 initiative on food security and climate.

Good management of nutrition within university cities

- ❖ Through monitoring nutrition, taking into account the quality standards of meals in terms of quality and cooking, applying the barcode system
- ❖ Establishing specialized committees to ensure that the final product reaches the student in the form of a complete meal that meets standard specifications

**Medicinal and Aromatic Plants
Research Institute offer
remarkable programs to**

- ❖ prepare scientific competencies who conduct advanced and qualified research.
- ❖ compete in labor market
- ❖ maximize the importance of producing aromatic medicinal plants.
- ❖ to provide solutions raising the efficiency of crops and various other things through different departments

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90

**Publications in
Scopus (2017 -2022)**

340

**Undergraduate and
postgraduate
teaching courses
related to SDG2 are
available at BSU**

Health services at BSU:

BSU is dedicated to providing the highest quality **healthcare** to all the students. Provided medical insurance for faculty members and staffs. It is always keen to develop and add new units within its hospitals.

Smoke-Free Policy

BSU has a smoke-free policy for all buildings and surroundings on campus.

The Oncology and Burn Hospital It is the first of its kind in the governorate level. It was built on an area of 800 square meters and was equipped with the latest capabilities.

National Center for Rehabilitation of Children

It is the first one at the level of Egypt. It aims to provide the physical, functional and psychological rehabilitation of children with special needs.

Since the spread of the Covid-19 pandemic

Beni-Suef University has taken a set of rapid measures to confront the Corona virus, and has drawn up a strategic preventive and awareness plan inside and outside the university, and in faculties, the university hospital, and the local community.

Faculty of Science for People with Special Needs

It is one of the unique and distinguished faculties at BSU and it is considered the first faculty in the Middle East. It aims to achieve the university's goals of linking the university with the community in providing services to people with special needs.

BSU hospitals complex

it is equipped with the latest clinic systems, the surgical and emergency care, kidney unit and the emergency operations unit

Oxygen generating station

The station is the first of its kind at the level of university hospitals in all universities in the Republic. It aims to achieve self-sufficiency, produce and provide medical oxygen throughout the day as it depends on the surrounding air and not an external source.

Volunteer medical convoys are launched to the most need villages monthly within the "Decent Life" initiative

Provide distinguished medical services, free of charge for all, and raising health awareness among citizens.

Disability Challenge Service Unit

It provides different services that accommodate students and staff with disabilities. Furthermore, it helps students with disabilities to adapt to university life and study work. .



A cooperation protocol between Beni-Suef University and the New Valley Governorate

To care and rehabilitate people with disabilities. It provides different services that accommodate students and staff with disabilities. Furthermore, it helps students with disabilities to adapt to university life and study work. .

After starting the operation of the brain endoscopy unit at the University's Hospitals in 2022

The medical team performed the first two surgeries on a five-month-old child suffering from hydrocephalus with cysts not connected to the brain.

Vaccination of all faculty members, staffs, and students against Covid-19 in 2020-2021



129

Publications on the coronavirus during the year 2020-2021

1140

Undergraduate and postgraduate courses related to SDG3 are taught at BSU

4,500

Surgical operations at BSU Hospitals within 3 months in 2021

1751

Publications in Scopus (2017 - 2022)

74,000

Emergency cases were received at the BSU hospitals last year



Different centers to support and provide different services to students, such as:

- ❑ Integrated e-Learning center
- ❑ Educational Training and Consultation Center
- ❑ Blended Learning Center
- ❑ University Center for Career Development,
- ❑ Law Consulting and Training Centre
- ❑ Agricultural Products and Research Center
- ❑ Scientific Center for Training and Consulting
- ❑ Sports Activities and Science Center
- ❑ Continuing Engineering Training Center
- ❑ Center for Strategic and Economic Studies
- ❑ Research Center
- ❑ International Computer Center
- ❑ Center for Student Production and Services
- ❑ The Water Studies and Research Center
- ❑ The Technology Transfer and Innovation Marketing Office
- ❑ Women's Research and Studies Center
- ❑ The Excellence Center for the economic production of approved nanometric materials
- ❑ Center for Microanalysis and Environmental Research

Cooperation and partnership with different organizations to help students by different means, such as:

- Center of Excellence for Water, a USAID funded project, where;
- Arab Organization for Industrialization
- Industrial Control Authority.
- French, Spanish and Japanese universities.
- University of Utah, USA.
- The universities of Toliara in Madagascar and Dakar in Senegal
- Italy under the auspices of the Science, Technology and Innovation Funding Authority
- the Arab-African Council for Integration and Development (AACID)

Many unique interdisciplinary faculties and institutes, which distinguish it from other Egyptian and Middle Eastern universities

- Faculty of Science for People with Disabilities and Rehabilitation
- Faculty of Navigation Sciences and Space Technology
- Faculty of Earth Science
- Faculty of Postgraduate Studies for Advanced Sciences
- National Institute of Longevity Elderly Sciences
- Institute for Small and Medium Enterprises Studies
- Laser Institute for Research and Applications
- Medicinal and Aromatic Plants Research Institute.

Funding and supporting research projects, through:

- The university's project support and financing office
- Egyptian Knowledge Bank
- Erasmus program with the European Union
- British Council in the field of environmental management
- United Nations Industrial Development Organization
- Science and Technological Development Fund, affiliated with the Ministry of Higher Education and Scientific Research
- Entrepreneurship Club at BSU

Peer Reviewed Scientific journals

- University magazine
- International Journal of the Humanities
- Journal of Faculty of Veterinary Medicine
- Distance education magazine
- Journal of the Faculty e of Agriculture
- Faculty of Arts Magazine
- Beni-Suef Journal of Physical Education and Sports Sciences
- Journal of Special Needs Science



Various financial support schemes are available to national and international students:

- The Social Solidarity Unit within Beni-Suef University
- Disability Challenge Service Unit within Beni-Suef University
- Misr El Kheir Charitable Foundation
- Abu Hashima Al Khair Foundation
- Some members of the People's Assembly
- Some senators
- Rotary Club
- The Coptic Evangelical Organization and the Ataa Fund
- Expatriates Administration (International Students Administration)
- Arab-African Council for Integration and Development (AACID).

Qualifying all faculties and institutes to obtain accreditation from the National Authority for Quality Assurance of Education and Learning, for example:

- Accreditation of Faculty of Veterinary Medicine in 2019
- Accreditation of Faculty of Human Medicine in 2021
- Accreditation of Faculty of Pharmacy in 2022



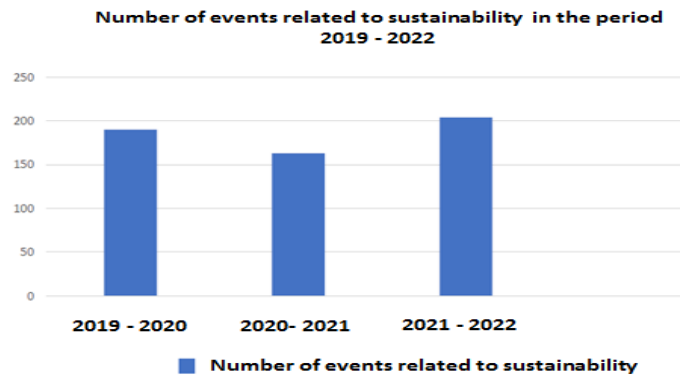
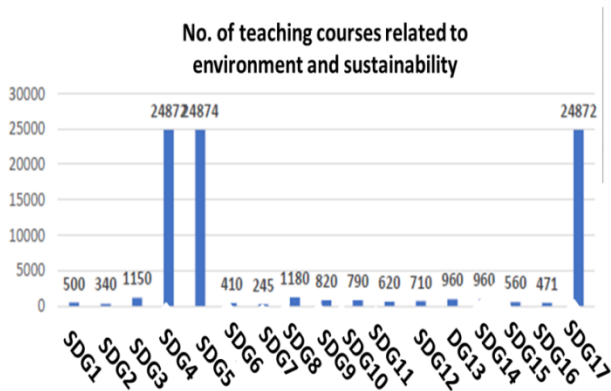
Improving of the admission opportunities of international students

The university considers international students to be the sons of the university and they are treated equally with Egyptian students without discrimination, and the university administration is keen to overcome any difficulties they may face



Different student organizations related to sustainability

- Student unions in different faculties at BSU
- "Youth for Development"
- "People Against Extremism"
- -"Scout units" set of students' units existed in every faculty of Beni-Suef university
- Organization of "IEEE"
- Organization of Google Developer Student Clubs "GDSC Beni-Suef"
- Organization of "GDG Beni-Suef"
- Organization of "Students for Egypt"
- Organization of "Life maker"



5532

Publications in Scopus (2017 - 2022)

53409

Total Citations in Scopus (2017 -2022)

51.5 %

International Collaboration

9.7

Citation per publication in Scopus (2017 - 2022)

48

Research projects serving sustainability are funded externally (2020-2022)

46

Bachelors' programs

Achieve gender equality and empower all women and girls



05

Gender
Equality

BSU has traditionally provided a university environment more suited to women. Therefore, approximately more than 50 % of the University's students are female and the University rigorously tracks females' application, acceptance, and completion rates.

Non-discrimination against women:

BSU pays always a great attention to gender equality and promotes a safe and equal opportunity learning environment that is free from any kind of discrimination or harassment aiming to create a friendly campus. The university abides to the public regulations and policies for anti-discrimination and anti – harassment. The following are some items:

➤ **The first item:** Citizens are equal according to the law, and they are equal in rights, freedoms and public duties, without discrimination between them on the grounds of religion, or creed, gender, origin, colour, language, disability, social level, political or geographical affiliation, or for any other reason. Discrimination and incitement to hatred is a crime punishable by law and the state is obligated to take the necessary measures to eliminate all forms of discrimination. **(Article 53 of Constitution 2014).**

Set El Hassan Magazine\

It addresses the most important issues of Egyptian women, whether in their personal lives, such as inheritance, divorce, and forced marriage, or at the level of general content, such as issues of violence.



➤ **The second item:** Anyone who is exposed to others in a public, private or public place by making things, insinuations or Sexual or pornographic insinuations, whether by gesture, word, or deed, by any means, including wired, wireless, or electronic communications, or any other technical means. The penalty shall be imprisonment for a period of no less than three years and not exceeding five years, and a fine of no less than two hundred thousand pounds and not more than three hundred thousand pounds, or with one of these two penalties, if the offense is repeated by the offender through the pursuit of the victim. **(Article 306 repeated A - of the Egyptian Penal Code promulgated by Law No. 58 of 1937 according to its latest amendments, Article 306 repeated A replaced by Decree Law No. 50 of 2014 Official Gazette Issue 23, continued on 5/6/2014)**



حوار مع أول امرأة لواء عامل في تاريخ وزارة الداخلية

.. من وتعديات الحيا عن جريمة زواج القاصرات وقضايا الميراث

سمر الدسوقي كنا وما زلنا في ظهر الوطن

ملف العدد 2030 وهدايا السيسي لعظيمات مصر

لم يكن علينا الالتحاق بكتليات الإعلام، جمعة بانت منتشرة بشكل كبير بين خريجات الإعلام، ويرجع سبب هذا الإقبال لعدة محاور منها: فلة فرص العمل وصعوبة العمل في مجال الجديا بالنسبة للنشبات والسبب الأكبر هو العادات والتقاليد، التي أصبحت لا يتبع من المرافف، جعل مشتقة، بنال من ضحيته حتى الموت فهذا لا يصح وذلك لا يتبع وكلمة واحدة تتورد تتلفق أي طريق لتحديث ألت بنات، على الرغم أن ما تطليه النشبات ليس عيبا أو مشيناً، وكل ما تطليه هو السمي والاجتهاد نحو بناء مستقبل مشرق في مجال الخبرته بانفسهن.

تقرير مريانا سامي وجهاد محمود



العادات والتقاليد

تقيد سعي خريجات الإعلام نحو العمل

التي تقيد سعي خريجات الإعلام نحو العمل، ويرجع سبب هذا الإقبال لعدة محاور منها: فلة فرص العمل وصعوبة العمل في مجال الجديا بالنسبة للنشبات والسبب الأكبر هو العادات والتقاليد، التي أصبحت لا يتبع من المرافف، جعل مشتقة، بنال من ضحيته حتى الموت فهذا لا يصح وذلك لا يتبع وكلمة واحدة تتورد تتلفق أي طريق لتحديث ألت بنات، على الرغم أن ما تطليه النشبات ليس عيبا أو مشيناً، وكل ما تطليه هو السمي والاجتهاد نحو بناء مستقبل مشرق في مجال الخبرته بانفسهن.

تحقيق مريانا سامي جعدان منصور



فستان زفاف فيه سم قاتل زواج القاصرات جريمة مكتملة الأركان

ن. م. م : «أبني مشين» لحد داو فلان وعاده ٣ سنين، وبلاش تكونوا اسمي أهلي ممكن يتجسوا»

بحال عبد الصالح القطر والدول والمرضى بالوت
دائم دائما في دائرة زواج القاصرات في المجتمع

عوان الإصطفاة أن صبا لكر من 11 مليون سنة في الوطن العربي بزمين بعد المس الفانوي يجرها البهة الحظا وبصفا خاصا في عمر الك من 115 ألف فاقرة الزوم بعد 22 طفلي زواي 9 بوزي في الخنسة صلب من صبرنا ونرميه بنت الظفوة الخطية بعد الحيا، مالم أذا بزموم الزلزل فذلك بنسبة إلى استكاد جم الإصطفا صبا حيل الطب والخبز بزموم مسير الزوم جالبراد القصبة طوم، وغداه الصلزل صعد صابون بعديا نابوض الفونتي في مصر من هذه العزبة.

فتايات يسرون قصصهن
مسرة ديسر، التي طلبت عدم ذكر اسمها حفاظا علىها، كان عدي 11 سنة الصلبي حيرت كل ضاحق العين وبصفت منهم ٤ بنت، والرائل ده مسنود وعنده العلات وطحن فلانمكده دي رغدا في حين العلي وبصفتي في الزوم بعد العوز صباين خلدت ولم يظفر وطرفي بالوت لعايا حلت وعنده ٧ سنوات ولعل ماكن كنة مشتق سكانية قبل ١٤ سنة وأكبت قاتلة رسميا والشاه ولم يرضي بعدها فقد صبا حيلان البرد وبصافتها أياها حائل طر قدا، والي كة فلانها 1٤ من ٤ السن حرك في العفد، ويعدلا زواج الصلبي من مشكلات كثيرة وبصفت بعد وانا كنة مسفرة وكن حاما صباها لوسني وبصفت صبا من حياها بطلاني من يوم بدأ انكر حيا بطلاني صبا (و في كندا حيلان أوي وصي وحالي بخصوبتي).

Women's Research and Studies Center at Faculty of Mass Communication

It seeks to advance media research that deals with women's relationship with the media. It also seeks to increase social and cultural awareness of women's issues in Upper Egypt, and to strengthen scientific relations with local, regional and international organizations and unions interested in women and the media.

The Unit to Combat Violence Against Women under the auspices of the National Council for Women

it undertakes the development and training of staff, students and faculty members on the topics and concepts of forms and mechanisms of combating violence against women, preparing and developing distinguished human cadres in this field, providing scientific, social and legal support, preparing research, studies, scientific competitions and technical activities related to the protection of women from all forms of violence and their development in all economic, social and environmental fields.

Women leaders have proven their worth in various disciplines, as follows;

1. During the previous four years, women participated strongly in all leadership positions within the university
 - ❖ 7 Women worked as dean of the faculty
 - ❖ 28 Women held the position of vice-dean,
 - ❖ 22 Directors of a unit of a special nature
 - ❖ 10 Women directors of a special program,
 - ❖ 13 Women held the positions of the position of faculty director
 - ❖ The woman also rose to the top of the administrative hierarchy and took the position of the university's secretary general.
2. More than 130 women leaders have participated in decision-making positions within the university during the last year.
3. It was decided to allocate a permanent headquarters for the National Council inside the university the incoming periods.

23
**Publications
in Scopus
(2017 -2022)**

41 %
Female staff

49 %
**Alumni are
female in
2021 - 2022**

47.5 %
**Enrolled
female
students**



Free drinking water

BSU has installed a total of 300 drinking water dispensers in the various academic and administrative units. Students, faculty, staff, and visitors can obtain drinking water for free using their own receptacles. Filter cartridges are replaced every three months, hence, the dispensers provide free and clean drinking water for staff and students on campus.

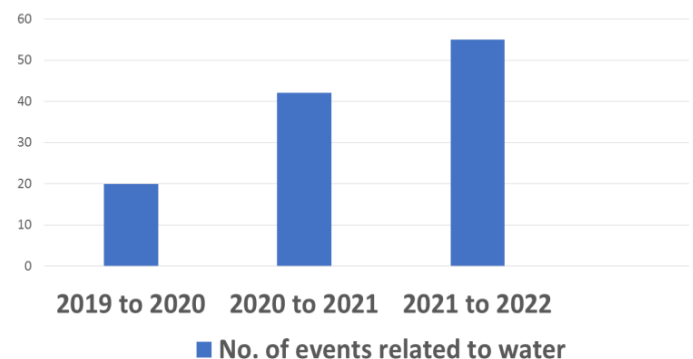
Wastewater treatment

- ❑ The water supply and sewage pipe networks in BSU are installed independently.
- ❑ BSU has no sewage treatment plants. The university base water and faucets are each connected to the governmental main water purification network, and all wastewater treatment is undertaken in this network domain.
- ❑ A well for underground water was drilled at 130 m in the campus of 320 acres complex contributes to the storage of the rainwater significantly.
- ❑ Many research projects and inventions had funding from different sources in the field of water treatment.
- ❑ The use of agricultural drainage water to irrigate the greenhouses and gardens.
- ❑ The use of water treatment unit in dialysis at BSU hospital. The water used in hemodialysis is treated, where the salts are removed and the microbes present in the water are trapped.

Water management educational opportunities

- The university has a declared and clear plan to increase the awareness of students of rationalizing water consumption through different events and activities.
- Different teaching courses are related to agricultural and industrial water treatment as well as desalinating sea water and adding unconventional sources of pure water.
- Many inventions and research projects are performed at BSU to develop scientific solutions to water problems from lack of supplies and pollution from different sources and to conserve water.

Number of events related to water management and conservation



Sustainable water resources management through different facilities within BSU, such as:

- The Excellence Center for the economic production of approved nanometric materials\.
- The Central Laboratory and Environment and Water Lab at Faculty of Postgraduate Studies for Advanced Sciences
- The Water Studies and Research Center at Faculty of Earth Science.
- Center for the Development of Means of Preserving the Environment
- Office of Consulting and linking research with industry
- Crisis and Disaster Management Units at different BSU faculties and institutions

Cooperation and partnership on water security, such as:

- ❑ A cooperation protocol with the Holding Company for Drinking Water and Wastewater. .
- ❑ A partnership with the Center of Excellence for Water, a USAID funded project.
- ❑ A cooperation protocol with Chinese Research Center of Excellence for Water Management and Technology
- ❑ A cooperation protocol with the Arab Organization for Industrialization
- ❑ A Cooperation protocol with the Industrial Control Authority.

Participation of Beni-Suef University in the National Committee for Sustainable Development and Governance

The most important objectives and outputs of the committee are the establishment of a center for sustainable development and governance in all Egyptian universities to ensure the sustainability of the committee's work, as well as cooperation with industrial bodies and strengthening community participation through the committee.

The partnership of BSU with the Center of Excellence for Water, :a USAID funded project..

1. Beni-Suef University is the co-chair for the sustainability phase.
2. The Center of Excellence for water COE-Water is involved in third public private partnership PPP with Egypt aiming to long-term sustainability of the COE-water activities.
3. Six Research teams from Beni-Suef University won 6 competitive projects in the water research field.
4. BSU was the top university from the list of the winning Egyptian universities that won 120 master's scholarships from the water Excellence Center



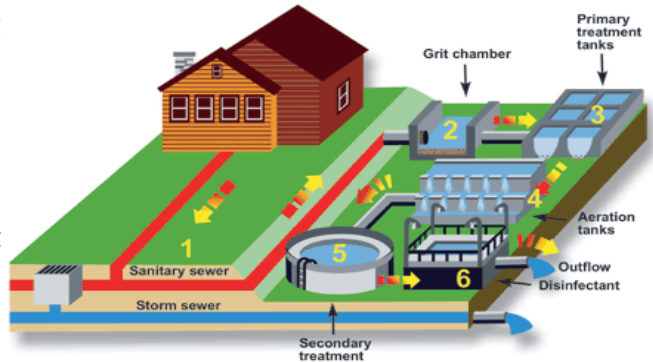
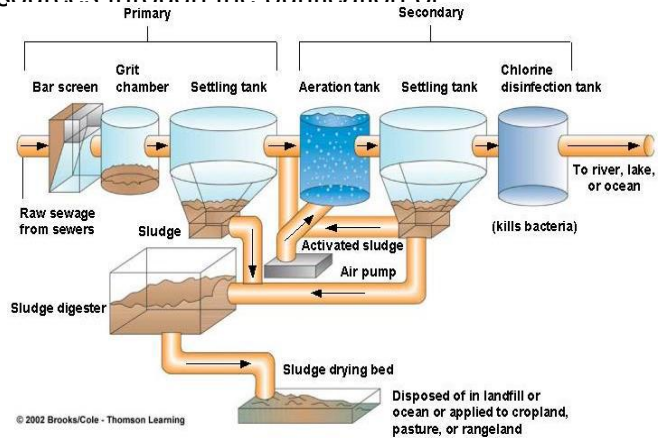
Faculty of Postgraduate Studies for Advanced Sciences and Faculty of Earth Science

They have Centers and laboratories that are concerned with the conservation, development and good management of water resources through the purification of drinking water and sewage treatment.

Faculty of Earth Science

The center has carried out many studies and research related to community service, such as:

- 1) Designing an industrial sewage treatment unit for the Pharaohs Cardboard Factory – Kom Oshim area in Fayoum.
- 2) Rehabilitation of the industrial wastewater treatment unit of the Horus Paper Factory in the industrial zone of Bayad Al Arab in Beni-Suef to reuse wastewater and not waste it.
- 3) The current evaluation of several sewage treatment plants in Beni-Suef.
- 4) Making the necessary environmental measurements for many factories in Beni-Suef, such as Horus Paper Factory, Egypt Cables Company, Chemical Fertilizers Company, and others.
- 5) Making an integrated environmental record for the University's faculties.
- 6) Make a plan to educate citizens on how to rationalize the consumption of water resources.
- 7) Conducting studies for several land reclamation companies for the purpose of exploring evaluating groundwater in the desert hinterland of Beni-Suef Governorate



316

Publications
in Scopus
(2017 -2022)

58,883 m³

Volume of water
used in the
academic year
2021 - 2022

410

Teaching
courses are
related to
SDG6



The university actively promotes energy efficiency and clean energy through:

- ❑ Finding alternative environmentally friendly modes is one of the most important concerns for all parts of the organization. Hence, the ordinary filament bulbs are replaced with LED bulbs at all parts of the University.
- ❑ Solar energy project is circulated within different parts of Beni-Suef University.
- ❑ The university uses energy-saving and self-battery research devices to control the amount of the electricity for devices.
- ❑ Directing to Generalizing the use of lamps and lighting poles with light sensors inside all different buildings of the university to allow the automatic lighting and closing in response to sunlight.
- ❑ Launching continuous awareness campaigns and awareness-raising activities on rationalizing electricity consumption.

Dr. Laila Abdel-Fattah,

She is an example of many distinguished researchers at BSU who achieved the goals of sustainability development globally and regionally. She is classified as one of the best researchers in Africa in the field of solar energy.



Funding a large number of research projects in the field of energy and confronting climate change, such as:

- ❑ The Renewable Energy Alliance project, which aims to manufacture and install an Egyptian solar cell system and industrial solar inverters.
- ❑ Using nanotechnology and plastic waste to produce renewable energy with the participation of STDF Production Company.

Faculty of Postgraduate studies for Advanced Sciences is characterized by the following:

1. Department of Renewable Energy Science and Engineering,
2. A central lab for thin film protection used in solar cell applications.
3. The Excellence Center for the economic production of approved nanometric materials
4. Approval to establish a center of excellence in (water - energy - food)
5. Environmental and Energy Department is concerned with fields specialized in energy, environment, climate change, cement chemistry and technology and quality control.
6. Registration of master's and doctoral theses based on the research plan that serves the goals of sustainable development
7. There are a number of programs serving the field of energy, such as materials science, nanotechnology, new and renewable energy, environmental science, and industrial development.

Dr. Al-Rubi

He is one of the 2% of the world's most distinguished and influential scientists in the field of materials and energy sciences, according to the Stanford University classification.

European honor for the Egyptian scientist Muhammad Hussain Al-Bakai

He presented promising solutions in the production of clean energy. The International Journal of Hydrogen Energy published one of his most important researches showing the huge potential of nanostructures in clean energy applications.



Getting an Egyptian-French research project entitled “Nanometric Compounds of Pure and Grafted perovskite and Their Use in Energy Applications.”

The project falls under the Imhotep protocol between the Academy of Scientific Research and Campus France, and the project includes the preparation of some nanometric materials and their use in fuel cells to produce energy. The project includes visits exchanged between the research team of the project from the Egyptian side and the principal researcher, Dr. Pierre Mellet, professor at the University of Paris-South in France.

Cooperation protocols aimed at providing renewable energy and solving environmental problems

1. Cooperation protocol with the Ministry of Environment
2. Cooperation protocol with the Arab Organization for Industrialization.
3. Scientific cooperation programs between Egypt and Italy in the fields of renewable energy
4. A cooperation protocol with Titan Cement Factory

10,250 KWh

Campus Energy Savings Since 2017

8,250 KWh

Energy consumption in the academic year 2021-2022)

402

Publications in Scopus (2017 -2022)

245

Teaching courses are related to SDG7

Developing youth capabilities

In line with "the Industrial Egypt" Initiative - the presidential initiative of the President of the Republic, Beni-Suef University and aiming to develop youth capabilities, a series of seminars, conferences, campaigns, and initiatives, research projects, teaching courses, master and PhD these are held continuously. Also, outside the campus, awareness campaigns, initiatives, field visits, and other opportunities are held.



Providing job opportunities and promoting the development of entrepreneurship

The university seeks to support young people and provide all the capabilities that help them to create successful and innovative projects, for example:

- ❑ A cooperation protocol with Al-Komi Group to support the University's Medicinal and Aromatic Plants Research Institute
- ❑ Providing training programs through the Egypt Center for Entrepreneurship and Innovation,.
- ❑ Entrepreneurship Club of the Technology Transfer and Commercialization Office within Beni-Suef University.
- ❑ Training and qualifying students on the latest technologies such as artificial intelligence, computational computing, communications and networks
- ❑ A cooperation protocol with "Enroute" company in the field of entrepreneurship.
- ❑ Institute of Small and Medium Enterprises within Beni-Suef University. It is the first institute specialized in studying this field in the Middle East.
- ❑ Center for Entrepreneurship and Community.



Cooperation with the Regional Center for Teaching Space Science and Technology

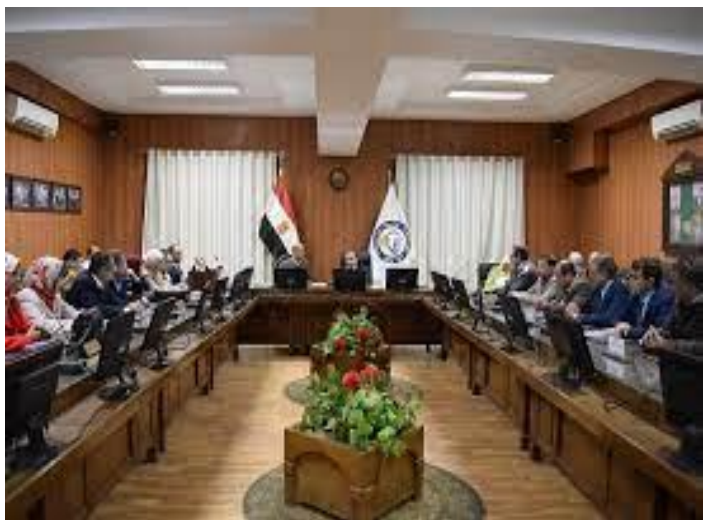
It helps developing and building capabilities in the field of space science and technology, satellite technology for remote sensing and its applications

Office of Consulting and linking research with industry within the University Performance Development Center

It opens unconventional permanent channels of communication between the university, industry and society.

There are different meetings, committees, and other related organizations in BSU and their target functions are as follows;

- 1) Maintenance of human rights and campus security
- 2) The development of various university affairs regarding; student affairs, academic matters, administrative coordination, Quality Assurance Unit Committees, etc.
- 3) Matters relating to faculty appointment and improvement of teaching effectiveness.
- 4) Management of fund providing social assistances.
- 5) International academic cooperation and exchange.



There are different sustainable centers aiming to prepare students for the labor market, such as;

1. Educational Training and Consultation Center
2. Integrated e-Learning center
3. University Center for Career Development (UCCD)
4. Office of Technology Transfer and Marketing
5. Law Consulting and Training Centre
6. Agricultural Products and Research Center
7. Scientific Center for Training and Consulting
8. Sports Activities and Science Center
9. Continuing Engineering Training Center

Center for Communication and Information Technology at the university. It provides the following;

1. Paying salaries and wages for permanent and temporary workers on a monthly basis.
2. Making rewards for extraordinary efforts for permanent employment on a monthly basis, as well as incentive rewards.
3. Making rewards for role exams for permanent employment
4. Issuing variable wage cards for permanent employment and keeping them in their service files at the university.

65

**Publications
in Scopus
(2017 -
2022)**

1180

**Undergraduate
and postgraduate
teaching courses
are related to
SDG8**

820

**Teaching
courses
support
industry side**



BSU has different centers built with the goal to develop a robust and innovative community,

- 1) The Excellence Center for the economic production of approved nanometric materials
- 2) Center for Research and Agricultural Products
- 3) Center for the Development of Means of Preserving the Environment
- 4) The Water Studies and Research Center at Faculty of Earth Science.

The Technology Transfer and Commercialization Office at BSU

- 1) It supports innovative researchers.
- 2) It connects researchers to the local and international labor market and encourages them by marketing scientific research, innovations and transferring applicable technology while preserving their intellectual property locally and internationally.
- 3) It works to meet the needs of the local market by financing competitive projects in the industrial, agricultural and service fields.

The Office of Consulting and linking research with industry provides to the following;

1. Opening unconventional permanent channels of communication between the university, industry and society.
2. Marketing the results of applied scientific research projects for industry and the private sector, whether local or international, in coordination with the beneficiary authorities and heads of research projects.
3. Strengthening and activating cooperation between the industrial zones in Beni-Suef or other governorates and between the universities on the other hand, which contributes to the development of the educational process and realizing the applied benefit of research at the university.

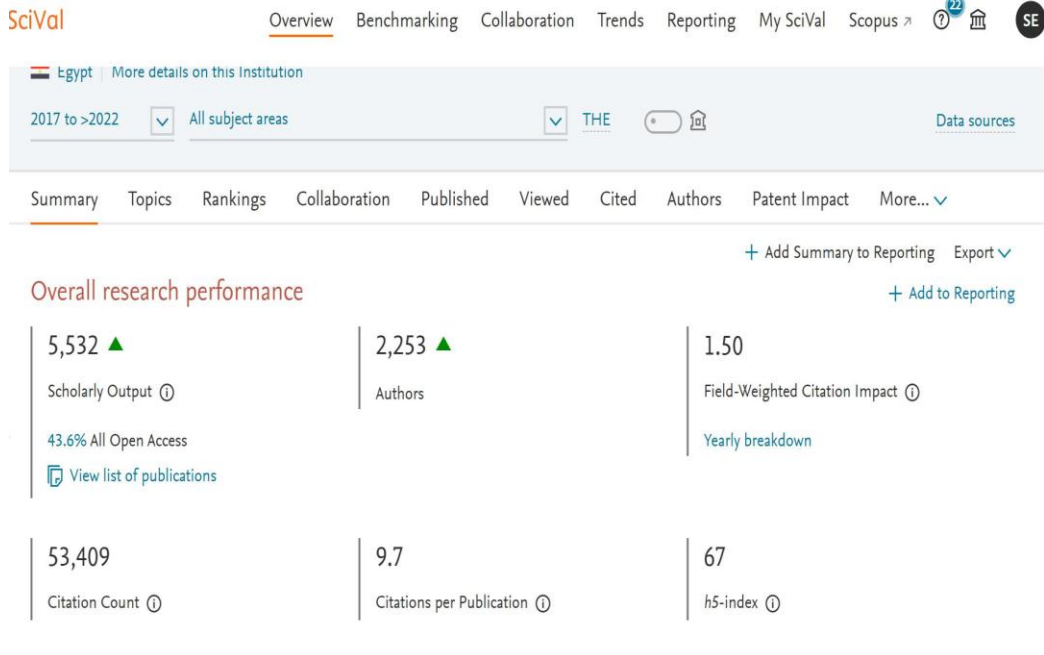
A professor at Beni-Suef University obtained two patents related to animal blood

The first patent is: converting aluminum waste into electricity by interacting with seawater and obtaining hydrogen in huge quantities.

The second patent: Using huge amounts of animal blood found in slaughterhouses as a source for producing nanoscale iron oxides with vital applications in a very easy way.

Participation in 17 smart green projects in the exhibition held by the Ministry of Higher Education and Scientific Research at the COP27 climate summit.

1- Overall research performance 2017 – 2022



141

Publications in Scopus (2017 - 2022)

29

innovative projects funded by various donors and serving the sustainability plan in 2021

820

Undergraduate and postgraduate teaching courses are related to SDG9



BSU provides high quality facilities that matches the needs of all learners including students' and staff with disabilities, such as:

- ❑ The special university offices for coordinating and admission of students at the university are alerted to facilitate admission procedures and provide services that help them in education.
- ❑ Providing support or total exemption on tuition fees through the Social Solidarity Unit and the Disability Challenge Service Unit for poor and disadvantaged students
- ❑ Circulating a handling guide for dealing with people with special needs (part 1 and 2) to all university faculties.
- ❑ Allocating suitable housing for students with special needs, with available environment and facilities to them.
- ❑ Availability of buildings according to the building code for people with disabilities
- ❑ Assisting in printing the curricula for the blind in Braille and on audio CDs, through the audio-visual library located in the Faculty of Arts
- ❑ The presence of a supervisor to meet all special needs of blind people.
- ❑ Strengthening health services.
- ❑ Continuous updating of study programs and courses at the faculty of Special Needs Sciences.

Faculty of Science for People with Special Needs is one of the unique and distinguished faculties at BSU and it is considered the first faculty in the Middle East.

It aims to achieve the university's goals of linking the university with the community

Disability Challenge Service Unit

- ❑ It providing prosthetic devices
- ❑ It provides the university with facilities, buildings, study programs and activities required for people with disabilities.
- ❑ Exemption of orphans and people with disabilities from tuition fees
- ❑ Exempting graduate students with special needs from tuition fees
- ❑ Provides treatment for students with special needs and their families.

The National Institute of Longevity Elderly Sciences at Beni-Suef University

It is considered the first institute in Egypt, the Middle East and Africa that deals with various geriatric sciences.

The university pays a great attention to provide:

Recruiting of students and people with special needs, and finding job opportunities for them.

Opening of the first National Center for Rehabilitation of Children with Special Needs at the level of Egypt.

It aims to provide the physical, functional and psychological rehabilitation of children with special needs.



Implementation of protocols with the competent authorities to hold training courses

in the fields of computers, languages and human development for students with disabilities, including the ICTP course from through the university's training center

Establishment of a dental clinic for children with special needs

Celebration of the University of the International White Cane Day



14

Publications in Scopus (2017 - 2022)

Celebrating World Down syndrome Day



790

Undergraduate and postgraduate teaching courses are related to SDG10

Celebrating World Autism Day



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



In all faculties, the interactive whiteboard is now used, and this is a nice need in response to provide the student's skills and the student's achievement ability.

The Human Resources Development Center at BSU seeks to develop the university's human resources competencies and train and qualify students to improve the quality of higher education outcomes through a group of internationally accredited trainers, standards-accredited training programs, and a training environment that conforms to international specifications.

The university provides a platform for e-books and a digital library to facilitate student access to educational resources and effective interaction between students and teaching staff members using modern technology. The university's e-book platform is one of the means of distance education, which allows diversity of sources and easy access to information.

The guest house building for international students

It contains a special section for undergraduate and postgraduate students, an information technology unit, a meeting and training hall, and a club for international students to practice various recreational sports and cultural activities.

BSU includes many unique interdisciplinary faculties and institutes, which distinguish it from other Egyptian and Middle Eastern universities

They help students to learn by connecting ideas and concepts across different disciplines and to apply the knowledge gained in one domain to a different one as a way to deepen their learning experience. They are namely the following; a) Faculty of Science for People with Disabilities and Rehabilitation, b) Faculty of Navigation Sciences and Space Technology, c) Faculty of Earth Science, d) Faculty of Postgraduate Studies for Advanced Sciences, e) National Institute of Longevity Elderly Sciences, f) Institute for Small and Medium Enterprises Studies, g) Laser Institute for Research and Applications and h) Medicinal and Aromatic Plants Research Institute.



Electronic Test Center

It is formed of three buildings and can accommodate 5000 students. It is designed according to international specifications and standards and is equipped with the latest audio systems, surveillance cameras and high-efficiency computers connected to the testing network of the ministry of Higher Education to implement electronic tests in all complexes.



Center for Agricultural Research and Products comprising 13 production units

It aims at linking the educational process inside the university with the outside community. For example, 3 production units with their outlets are available at Faculty of Agriculture namely; honey unit, detergents unit and seedlings unit and their products are sold to university workers as well as citizens.



Medicinal and Aromatic Plants Research Institute

It offers remarkable programs to prepare scientific competencies who conduct advanced and qualified research to compete in labor market, to maximize the importance of producing aromatic and medicinal plants, to provide solutions raising the efficiency of crops

In an effort to implement the ICTP project (Information Systems and Technology Project), the information technology units were established in faculties.

These units are considered the link between the six projects presented by ICTP at the university level and between the various faculties. In addition to increasing the effectiveness of university projects (network - management information systems - training - digital library - e-learning - digital portal), these units aim to provide distinguished services in information technology to faculties.

Beni-Suef University turned to digital transformation by electronic documentation of tasks and achievements as follows:

BSU is continuously working to reduce the effects of global warming and to be a green and healthy University through supporting sustainability projects and stimulating different aspects of sustainability within the curriculum.

Sport facilities and stadiums, such as:

1. The squash court . It is a unique stadium in Upper Egypt in that it is a legal stadium, meaning that international matches can be held in it.
2. Five-a-side football and hockey fields with high-quality specifications and artificial grass flooring “Landscape”
3. Two volleyball courts with artificial palm trees and clay soil



Beni-Suef university hospitals

are equipped with the latest clinic systems and with the latest capabilities. Moreover, oxygen generating station develops BSU hospitals to produce and provide medical oxygen helping to meet the needs of all hospitals and units. This station depends on the surrounding air and not an external source, hence ensuring oxygen continuity throughout the day

Conference Centre

It is distinguished by its location in a distinguished location on the Nile Corniche and the tourist promenade. The university is keen to apply international quality standards in all its facilities and various departments and seeks to achieve high levels of distinguished hotel services in addition to providing the necessary halls for holding conferences, workshops and training courses.

620

Teaching courses are related to SDG11

95

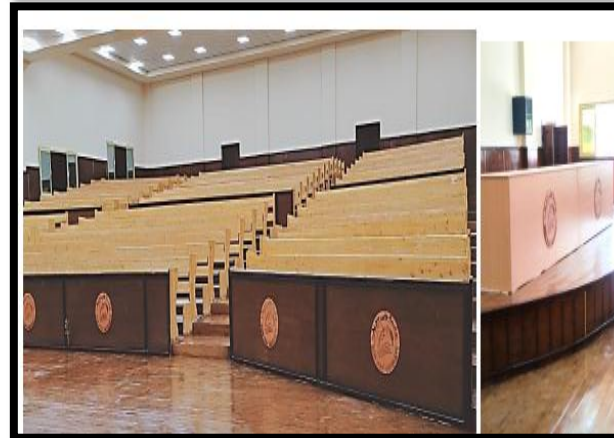
Publications in Scopus (2017 - 2022)



Ensure sustainable consumption and production patterns

Workshops and Production Services Center. Through which many achievements were achieved, such as.:

- ❑ Iron cans from Faculty of Developmental Social Work were recycled to manufacture a number of traffic barriers for use within the university campus
- ❑ A parking canopy and pergola were designed and manufactured for Faculty of Social Work
- ❑ 1,500 Beech chairs were manufactured to meet the needs of the various faculties
- ❑ Computer table, movable screen stand, wooden melamine counter, iron chassis for the university's testing center
- ❑ Student cupboard for the electronic testing center in an industrial education complex
- ❑ Manufacturing and installing benches and lecture desks in the new building of the Faculty of Politics and Economics in the Industrial Education Complex, with an area of 615 meters.



Center for Agricultural Research and Products comprising 13 production units aimed at linking the educational process inside the university with the outside community. For example, 3 production units with their outlets are available at Faculty of Agriculture namely; honey unit, detergents unit and seedlings unit and their products are sold to university workers as well as citizens.

Establishment of greenhouses at Faculty of Agriculture and Medicinal and Aromatic Plants Research Institute aiming to expand the investment in the cultivation of variable plants, to maximize the economic return by increasing the production of these crops and to establish the concept of superior quality.

Cooperation protocol between the Company for Animal Production and Faculties of Veterinary Medicine and Agriculture that aims to; a) prepare and implement workshops and training programs and research project services, b) exchange experiences and participate in animal production projects, and c) establish model



Center for the Development of Means of Preserving the Environment that aims to identify environmental problems and work to solve them scientifically. It also aims to combat all causes of pollution from all sources, to deal with garbage and wastes, to recycle wastes and to raise environmental awareness among students.

A cooperation protocol with the Nahdet Foundation in the governorate to implement training courses on handicraft industries for both undergraduate and postgraduate students that are funded with raw materials and product will be marketed by the foundation. The Foundation also provides microfinance to start small private projects.

Over the university faculties, 820 courses support the industry side, searching a proper techniques i.e. solve the challenges faced, the university support the innovation side, encourage students, teaching staff members search creative solutions for faced problems, compete in international innovative competitions.

A work team from the University participated in the electronic waste management project for university youth, sponsored by the Arab Union for Youth and Environment. The program aims spread the culture of safe disposal, benefit from this waste, and recycle it in safe ways through specialized and accredited companies.

Cooperation and successful partnership between BSU and the Ministry of Agriculture and Agricultural Reclamation in the agricultural innovation project. Such cooperation aims to increase the income of 10,000 smallholder farmers in Upper Egypt in the field of medicinal and aromatic plants, onions, garlic and chili peppers. The planned activities aim to improve practices at the production stage and raise the value of the final products and provide support in solving marketing challenges for both international and local trade..

Waste Recycling Center and is considered one of the production units which is interested in separating useful materials such as metals, plastics, glass, paper and other recyclable materials from useless wastes and preparing them for sale in the local market. In addition, the center is concerned with treating organic materials in the most appropriate and best way to produce high quality organic fertilizer.

Cooperation protocol between the Company for Animal Production and Faculties of Veterinary Medicine and Agriculture that aims to; a) prepare and implement workshops and training programs and research project services, b) exchange experiences and participate in animal production projects, and c) establish model

A cooperation protocol between Beni-Suef University and the New Valley Governorate to exploit an area of 200 acres for reclamation and conduct agricultural research as well as, to increase the productivity of strategic agricultural crops achieving self-sufficiency.

Many Research projects on improving waste management , such as:

- ❑ Using nanotechnology and plastic waste to produce renewable energy with the participation of a Solar Energy Technology and Fuel Production Company. The burning of plastic waste negatively affects the surrounding environment and public health, and the exploitation of these wastes in the production of economic fuel cells limits the harmful impact of waste and maximizes the use of it.
- ❑ Advanced removal of selected pharmaceutical residues from wastewater using nanometal/ organic frameworks and the use of bacterial algae resulting from it in the extraction of fuel and organic fertilizers

Faculty of Agriculture won a research project entitled Enhancing biodiversity in grain farming systems in the Mediterranean basin in cooperation with ten Arab and European universities.

The project seeks to achieve sustainable development in agricultural systems for wheat and some leguminous crops to confront climate change, rationalize irrigation water consumption, increase the efficiency of the target crops' use of water units, increase soil fertility, and raise nutritional value and disease resistance, through evaluating the available genetic makeup and testing it for different environmental conditions.

710

Teaching courses are related to SDG12

BSU pays a great attention to waste recycling, hence all faculties, institutes and departments place recycling bins for paper and plastic within offices, halls and laboratories to implement recycling. Wastes recycling reduces water and energy consumption and reduces the production of gas methane and carbon dioxide in the atmosphere. BSU also has contracts with companies supplying wastes for different places for reuse purpose and provide financial resources to the university. For example, supplying paper wastes for the printing press for reuse purpose.

116

Publications in Scopus (2017 - 2022)

Take urgent action to combat climate change and its impacts



Climate
Action

13

BSU has key implementation points to promote energy conservation and carbon reduction that focus on management measures for power and water conservation, energy saving for lighting and air conditioning, and environmental education.



Many projects aim to reduce carbon dioxide emissions and global warming. For example;

- Finishing and implementing of the funded research project entitled ((invention of a new catalyst for the economic CO₂ conversion into fuel)).
- Performing a project entitled ((Carbon sequestration by genetically modified microalgae for Biofuel production)). The project aims to develop an algae strain capable of fixing carbon dioxide with a higher efficiency. Cultivating these algae in highly polluted areas helps to reduce global warming.

Rationalizing the consumption of the daily amount of water contributes to save the energy needed to pump that in turn will reduce greenhouse gas emission.

About 3200 trees of various types were planted at the university in 2020 -2021. Increasing the green space helps facing the climate changes and global warming.

Faculty of Postgraduate studies for Advanced Sciences has a strong infrastructure of integrated devices and laboratories that helps in conducting advanced researches and studies to solve environmental problems and to achieve sustainable development goals such as reducing carbon dioxide emissions.

Faculty of Postgraduate studies for Advanced Sciences offers cement chemistry and technology program as a distinct and unique program that is the only one in Egyptian universities. This program aims to improve cement characters and to put different pathways for low-carbon cement production.

The lighting of Beni-Suef University in green celebrating with the World Earth Day from seven to nine in the evening and for three days (20 to 22 April, each year). It aims to spread awareness and concern for the environment.

Approval of the University Council to open registration for the professional master's program in (construction and building materials and integrated management of the environment and water)

Strict instructions for smoking prohibition such as; distribution of warning signs prohibiting smoking in the different university buildings and periodic following up of the behavior of students inside the buildings to prevent smoking.

Launching the Bicycle Festival each academic year.



The implementing of the center for environmental monitoring and limiting the risks of climate change at Beni-Suef University will be completed by next year. It will be a unique center at the level of Egyptian universities that will strength the university's role in facing climate changes and in order to achieve the principle of sustainability and Egypt's vision of 2030.

88

Publications in Scopus (2017 - 2022)

960

Teaching courses are related to SDG13



Life Below
Water

The Department of Fisheries at the Faculty of Veterinary Medicine, Beni-Suef University,

prepares veterinarians with distinguished scientific and practical skills in the field of fish diseases and care who are able to compete in the local and regional labor market and to develop and implement research plans to develop fish wealth and solve their problems, in addition to participating in preserving the environment and human health.

Meat and fish technology and their products are covered in the Department of Livestock at Faculty of Agriculture.

- ❑ The Animal Wealth Department seeks to possess the material capabilities and advanced and modern technologies that contribute to serving Egyptian society and humanity
- ❑ The department also plays an important role in developing plans to develop livestock projects in Egypt in general and Beni-Suef Governorate in particular, and developing and modernizing the management and production methods used by adopting the applied scientific research approach.

There are clear and cautionary policies and programs in all parts of the university for the safe and proper disposal of different waste types aiming to secure pure water through the following instructions:

- ❑ Avoiding throwing litter in toilets and sinks and the use of garbage cans instead.
- ❑ Avoiding throwing any organic or inorganic chemical wastes in toilets and sinks. There is safe collection of these hazardous wastes in specific containers at the university.
- ❑ Avoiding flushing medicines down the toilets

A team of university students reached the finals in the “Youth for Development” initiative in 2022 with the project “Aquaponics unit for growing rice and fish from a sustainable export concept.”

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

67

Publications in Scopus (2017 - 2022)

960

Teaching courses are related to SDG14



The Science Museum at the Faculty of Science includes a collection of mummified specimens of wild and human animals, some of which are rare and unique, and presents a vivid picture of wildlife and humanity in Egypt.

Collaborating with China on an applied research project on bacterial diversity associated with drought-tolerant plants and their growth-promoting mechanism. It is an innovative way to treat the problem of soil desertification and aims to obtain new bacterial strains capable of resisting the problem.

Cooperation with the Ministry of Agriculture and Agrarian Reclamation in the agricultural innovation project. This cooperation aims to increase the income of 10,000 smallholder farmers in Upper Egypt in the field of medicinal and aromatic plants, onions, garlic and chili peppers. The planned activities aim to improve practices at the production stage, raise the value of final products and provide support in solving marketing challenges for both international and local trade.

Faculty of Earth Science aims to prepare generations of specialists to meet the labor market needs of industrial institutions and bodies of various types in the fields of water resources management, drainage, oil and gas exploration, evaluation and exploitation of mineral resources, environmental assessment, engineering geology, and industrial development.

A cooperation protocol between Beni-Suef University and New Valley Governorate to exploit an area of 200 acres for reclamation and conducting agricultural research to increase the productivity of strategic agricultural crops and to achieve self-sufficiency.

The Medicinal and Aromatic Plants Research Institute offers wonderful programs to prepare scientific competencies that conduct advanced research and are qualified to compete in the labor market, to maximize the importance of producing aromatic and medicinal plants, to provide solutions that raise the efficiency of crops and various other things through various departments. 1) Department of Biotechnology of Medicinal and Aromatic Plants, 2) Department of Medicinal and Aromatic Pharmaceuticals, 3) Department of Production and Post-harvest, 4) Department of Chemistry of Medicinal and Aromatic Plants.

Making agricultural convoys to help the farmer to identify his real problems and to give support and provide him with everything new in modern agricultural methods and systems. That aim for optimal practice in the use of fertilizers and rational management of nutrients for plants and access to the highest agricultural productivity.

There are different training courses about soilless farming and Aquaponics. One of the significant benefits of aquaponic growing is the minimal water wasted compared to conventional farming. Aquaponics use approximately 90 % less water than traditional farming. In aquaponics, the water is recycled and used timely, as there is no soil to absorb water, and aquaponics continuously uses the same recycled water.

Development of skills of the university's students and providing them with the latest information and scientific studies in the agricultural field. For example;

- Using simulation models to improve water productivity and yield in dry areas.
- Organizing training courses for the use of modern and non-traditional techniques in the agricultural sector, including the applications of area sciences, geographic information systems and remote sensing.

59

**Publications
in Scopus
(2017 -2022)**

560

**Teaching
courses are
related to
SDG15**

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

16



Peace and Justice Strong
Institutions.

Encouraging students to participate in university affairs through Student unions in different faculties at BSU

Center for Integrity, Transparency and Anti-Corruption Study

The center aims to spread the culture of integrity and transparency and to move towards creating an administrative and ethical environment to build a positive and cohesive university community that achieves the goals of the educational process system (students - administrative staff - faculty members).

The legal clinic at Faculty of Law

It spreads the concepts of human rights, especially women and children, and providing legal assistance in order to achieve justice and the rule of law

The Unit to Combat Violence Against Women under the auspices of the National Council for Women

The objective of establishing the unit is to ensure the provision of a safe and supportive educational environment for women and university girls free from violence and discrimination, in light of the National Strategy for the Empowerment of Egyptian Women 2030,

The Social Solidarity Unit within Beni-Suef University

In 2020, the university made a cooperation protocol with the Ministry of Social Solidarity to establish a social solidarity unit within the university.

The university provides and supports the required health, medical and educational services by citizens in the most need villages.

The university also improves the standard of living, especially for those who are unable, through many comprehensive convoys and medical convoys, developing slums and eliminating illiteracy.

The university is working with great interest to enhance cooperation with universities on the African continent,

in light of Egypt's assumption of the rotating presidency of the African Union, which is the culmination of Egypt's efforts led by President Sisi during recent years, with the aim of achieving the goals of the 2063 African Development Agenda

The university considers international students to be the sons of the university and they are treated equally with Egyptian students without discrimination, and the university administration is keen to overcome any difficulties they may face.

The university works to provide full support for all possible forms of support to achieve the goals of the “University Gate” initiative. This is according to the following:

1. First: Giving priority and the necessary facilities to accept students from Arab and African countries who are nominated by the Council to study at the university level or who wish to complete postgraduate studies at various levels or to transfer from one stage of study to another correspondingly at Beni-Suef University for the purpose of completing the requirements for obtaining a university degree in their field of specialization after Carrying out the necessary clearing procedures.
2. Second: The University provides periodic scholarships to international students who wish to complete their undergraduate and post-university studies and who are offered through the Council

471

Teaching courses are related to SDG16

21

Publications in Scopus (2017 -2022)

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development



Partnerships to achieve the Goal

Beni-Suef University BSU cooperates with the government, domestic and foreign non-governmental organizations, and partnered universities and institutions to promote sustainable development goals through different methods such as policy formulation, dialogue activities, data collection, research cooperation, student services, and educational development resources. **The following are some examples for cooperation protocols:**

Sapienza University - Italy, Kanazawa University- Japan, University of Antwerp – Belgium, Zewail City-Egypt, EJUST University and many other universities.



Some examples for the international and local cooperation and agreements with Beni-Suef University



An international cooperation protocol between Beni-Suef University and the Arab-African Council for Integration and Development (AACID).



Signing a cooperation agreement with Sapienza University in Italy



Signing MOUs with Yobe State University and Kano University of Science and Technology



BSU SUPPORTS ALL UN SUSTAINABILITY DEVELOPMENT GOALS



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