

**NGUYEN TAT THANH  
UNIVERSITY**

REAL LEARNING - REAL SUCCESS - REAL PRESTIGE - REAL FUTURE

# SUSTAINABILITY DEVELOPMENT REPORT

PERIOD 2021-2022



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The 2021–2022 period is a time to recognize the efforts of universities to maintain teaching and learning activities, conduct scientific research, and serve the community in the "new normal" context of the pandemic. The world has entered the VUCA era. Nguyen Tat Thanh University, as a higher education institution, fully acknowledges its responsibility for aligning strategic goals with the global agenda led by the UN Sustainable Development Goals.

This sustainable development report serves as a comprehensive assessment of the university's progress, achievements, and challenges over the period 2021–2022, contributing to achieving the 17 Sustainable Development Goals.

By employing a multi-dimensional approach, we have successfully included the implications of the SDGs into our curricula. This integration guarantees that our students acquire the necessary knowledge, competencies, and values to effectively contribute as proactive agents for societal transformation. The institution has implemented a range of multidisciplinary courses, research projects, and experiential learning opportunities in order to effectively tackle the multifaceted issues presented by the SDGs. Our objective is to cultivate the development of critical thinking, ethical reasoning, and a global perspective in order to foster the growth of a new cohort of individuals who possess the abilities needed to successfully address sustainability challenges within their various domains.

## President's Statement



NTTU's approach is centered around collaboration. This study showcases the collaborative efforts between the institution and various local and international organizations, governments, and communities in order to solve shared challenges and advance the cause of sustainable development. We are proponents of the efficacy of collaborative action and the exchange of knowledge as catalysts for significant transformation. Through the cultivation of collaborative efforts, we may effectively utilize available resources, exchange optimal methodologies, and significantly enhance our influence, extending it beyond the confines of our institution.

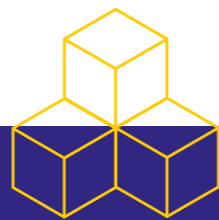
The SDR functions as an open and accountable representation of our dedication to education for sustainable development. This reflects our commitment to fostering the development of conscientious global citizens, promoting the advancement of knowledge and solutions, and making meaningful contributions towards the attainment of the SDGs. Through collaborative efforts, NTTU strives to establish a future that is sustainable, inclusive, and prosperous for future generations.

# About Nguyen Tat Thanh University



Nguyen Tat Thanh University is a privately owned educational institution belonging to the Saigon Textile and Garment Corporation. It was established in accordance with the government's policy to promote the socialization of education, aiming to facilitate access to learning opportunities for individuals and contribute to the development of a skilled workforce that aligns with the demands of the national labor market. After a span of 24 years, the educational institution has established itself as a frontrunner in embracing the ethos of educational innovation. This has been achieved through the establishment of a contemporary university administration system, the cultivation of a proficient faculty, the continuous development and revision of educational curricula, and the allocation of resources towards the implementation of teaching practices that align with the expected learning outcomes outlined in the strategic development plans for the periods 2014–2020, 2020–2025, and a vision for 2035.

The institution possesses a student body of more than 30,000 individuals, offering 52 undergraduate programs, 10 master's-level programs, and 04 doctorate programs. These programs are concentrated in 16 distinct training fields, spanning across 04 training zones within Ho Chi Minh City and Thu Duc City.



## University Highlights:

- » *At the institution level, the school achieved quality accreditation for educational institutions (97.3%), QS Stars (4 stars), UPM (5 stars), and ranked 5th according to Webometrics;*
- » *At the program level, there are 24 programs that have received quality accreditation, of which 8 received AUN-QA certification, 16 received Circular 04/TT-BGDDT certification, and 4 received stars from UPM;*
- » *For research, the university ranked 6th according to the URAP Ranking and 4th for domestic universities according to Scimago.*
- » *For entrepreneurial innovation activities, the university won the I-STAR award (2022) for organizations that made positive contributions to the community through innovative start up activities.*
- » *In order to achieve its vision and mission, the university establishes a development strategy for the period 2020–2025 with significant goals in governance, international cooperation, quality assurance, training, scientific research, learners, and community service.*



## Vision

By 2035, NTT University will be an innovative, multi-disciplinary, multi-field institution with high integration, training human resources in accordance with domestic and international demands, meeting the requirements of the Fourth Industrial Revolution, and meeting regional and international standards.



## Educational philosophy

Real learning, Real practice,  
Real prestige, Real success



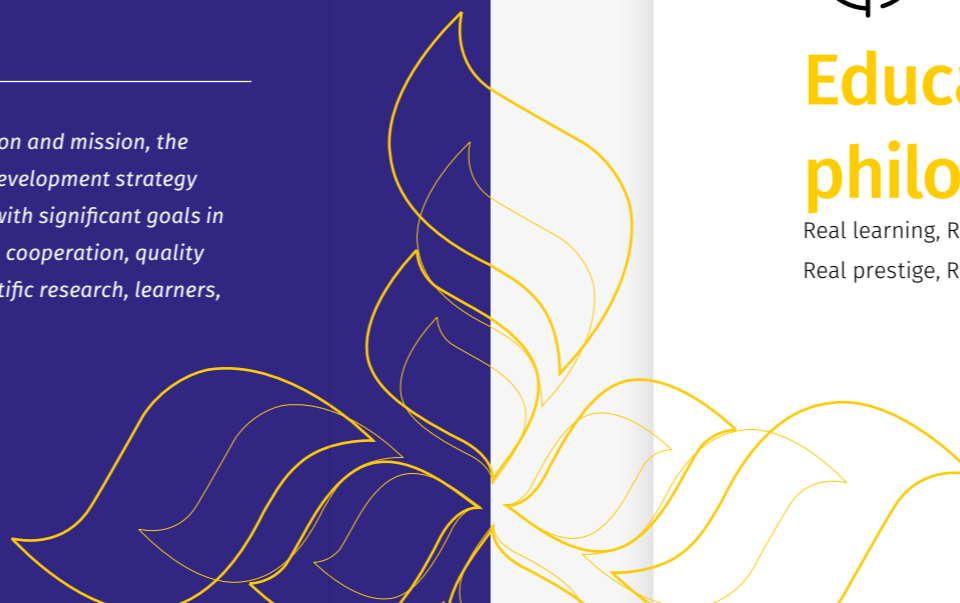
## Mission

NTTU is committed to creating a learning environment with the goal of comprehensive human development so that learners become active citizens capable of entrepreneurship, innovation, integration, and high competitiveness in the labor market at home and abroad through training activities, applied research, technology transfer, and social and community mobilization based on strategic alliances with businesses and research institutes.



## Cultural values

Humanity and Happiness



# Overview of Sustainable Development in Vietnam

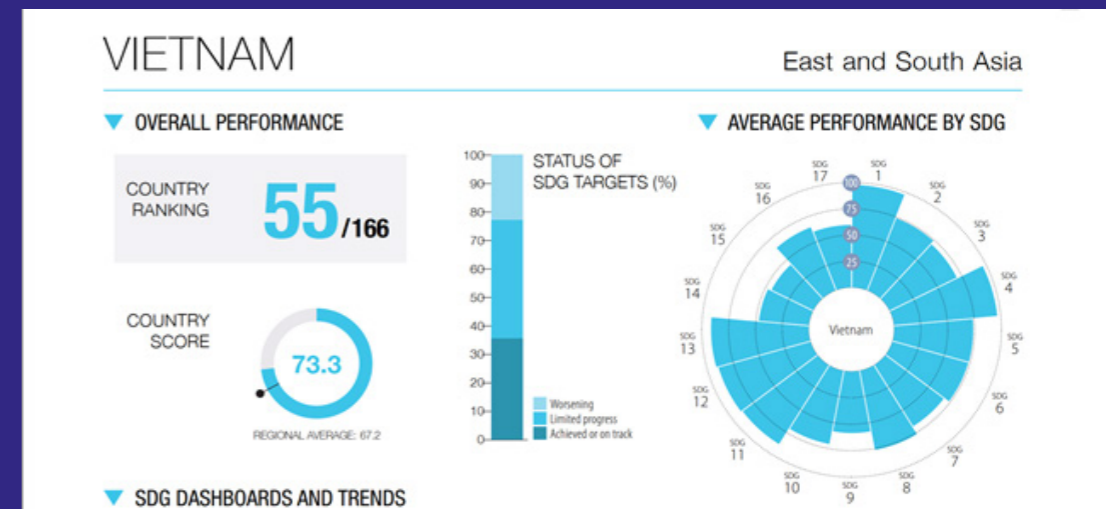
Vietnam has received a ranking of 55 out of 166 countries and a corresponding score of 73.3, above the regional average of 67.2, indicating the country's relatively strong performance in advancing sustainable development.

Vietnam has shown advancements in the pursuit of SDG 1, which aims to eradicate poverty, as well as SDG 4, which focuses on ensuring inclusive and equitable quality education. The country has successfully attained or sustained the targets set forth by these respective SDGs. However, there are still challenges that need to be addressed in relation to the SDGs. These challenges pertain to SDG 2, which focuses on achieving zero hunger; SDG 3, which aims to promote good health and well-being; SDG 5, which seeks to attain gender equality; SDG 7, which aims to ensure affordable and clean energy; SDG 8, which focuses on promoting decent work and economic growth; SDG 9, which aims to foster industry innovation and infrastructure; SDG 10, which seeks to reduce inequalities; SDG 11, which focuses on creating sustainable cities and communities; SDG 12, which aims to promote responsible consumption and production; SDG 13, which seeks to address climate action; SDG 14, which focuses on preserving life below water; SDG 15, which aims to protect life on land; SDG 16, which seeks to promote peace, justice, and strong institutions; and SDG 17, which emphasizes the importance of partnerships for achieving the goals.

The available data suggests that Vietnam is making moderate progress in various domains, including SDGs 2, 3, 5, 8, 9, 11, 12, and 16. Nevertheless, there exist domains where advancements have reached a state of limited or no growth, as seen by the lack of progress in achieving SDGs 4, 7, 13, 14, and 17. Furthermore, SDG 10 and SDG 15 exhibit a downward trajectory, signifying a deteriorating state in the endeavor to mitigate disparities.



In general, Vietnam has demonstrated praiseworthy progress in attaining the Sustainable Development Goals. However, it is imperative to maintain ongoing efforts in order to effectively tackle the persisting obstacles and guarantee long-term sustainable development. The establishment of collaborations and partnerships is of utmost importance in order to address these difficulties effectively and foster inclusive and equitable development within the nation.



*The SDG Index's Vietnam Sustainable Development Goals Progress Report (2023)*



# Overview of Sustainable Development at Nguyen Tat Thanh University

The self-evaluation of sustainable development implementation at Nguyen Tat Thanh University (NTTU), using THE Impact Rankings Methodology v1.2, which incorporates metrics and indicators linked with UN Targets, indicates the presence of notable obstacles across many domains.

SDGs 1, 2, 9, 10, 11, 12, 13, 16, and 17, which focus on poverty eradication, zero hunger, industry innovation and infrastructure, reduced inequalities, sustainable cities and communities, responsible consumption and production, climate actions, peace justice and strong institutions, and partnerships for the goals, respectively, all face significant challenges that need to be addressed.

In contrast, NTTU has achieved SDG 3, which focuses on good health and well-being. However, challenges remain in SDG 4, quality education; SDG 5, gender equality; and SDG 8, decent work and economy, indicating the need for further efforts in these areas.

Substantial hurdles continue to exist in achieving the objectives outlined in SDG 6, which pertains to the provision of clean water and sanitation; SDG 7, which focuses on ensuring access to affordable and clean energy; SDG 14, which aims to protect and sustainably utilize marine resources and promote life below water; and SDG 15, which seeks to conserve and restore terrestrial ecosystems and promote life on land.

In summary, it can be observed that NTTU has made notable advancements towards the attainment of several goals, but there remain cross-area improvements that necessitate further attention and action, requiring additional efforts and measures to surmount these obstacles and contribute to the realization of a sustainable future.



*Self-evaluation of Sustainable Development implementation at Nguyen Tat Thanh University according to THE Impact Rankings v1.2*

# 1 NO POVERTY



- **406** students' tuition waivers or discounts
- **>80%** of supported students with a GPA of 2.5 or higher
- **1,407** students supported for the pandemic
- **02** schools constructed "For the beloved Hoang Sa (Paracel Islands) and Truong Sa (Spratly Islands)"
- **05** international students awarded promotion-of-study scholarships
- **06** contracts for Capital Raising Support
- **02** contracts for Start-up Project Mentors
- Spring Volunteer 14: visited **30** policy families, presented **5,270** gifts, **320** meals to elderly individuals living alone, and **325** scholarships to underprivileged children



According to the United Nations (2023a), global poverty alleviation initiatives have faced a significant lack of progress since 2015. Furthermore, the impacts of the pandemic have caused a reversal of the consistent advancements made over the past three decades, resulting in a rise in extreme poverty rates. The global community is confronted with a multitude of geopolitical, socioeconomic, and climate-related hazards, hence exacerbating the challenges associated with post-pandemic recovery and rendering it a complex and uneven process.

In Vietnam, The Ministry of Labor, Invalids, and Social Affairs (2023) has conducted a comprehensive nationwide assessment, revealing that the national multidimensional poverty rate for the period 2022–2025 is 9.35%. This rate is a poverty rate of 5.2% for households classified as poor and a near-poverty rate of 4.15% for households classified as near-poor.



### The accomplishments of economically challenged students with financial assistance

In 2021, the school issued notice No. 299/TB-NTT regarding the acceptance of exemption and reduction requests for the 2021–2022 academic year. This resulted in exemptions or tuition reductions for 406 students in difficult circumstances. fees according to regulations, with a total support of more than 286,000,000 VND. Among the aforementioned cases are 113 students who are orphans or who have lost both parents; 25 students from poor households; 15 students from ethnic minorities from exceedingly challenging economic areas; and 6 students who must earn their own living because of the inability of their parents to work.

Through the provision of financial assistance by the educational institution, the encouragement of lecturers and peers, and the sustained personal endeavors of students, a significant proportion, exceeding 80%, of academically challenged students have achieved favorable academic outcomes, attaining a GPA of 2.5 or higher. In numerous instances, students who have derived advantages from the yearly scholarship policy have demonstrated exceptional academic performance, resulting in their attainment of valedictorian status within their respective fields of study.



### Assistance package for low-income students

In 2021–2022, a program called "Joining hands to support disadvantaged NTU students residing in Ho Chi Minh City impacted by the pandemic" provided assistance to a total of 1,407 students. Each student got a gift valued at VND 300,000, which encompassed fundamental necessities. The overall allocation of funds for student care and assistance amounts to VND 469,100,000, with a specific portion of VND 319,100,000 dedicated to socialization efforts.

# N O P O V E R T Y



**Support for students in the lowest financial quintile**

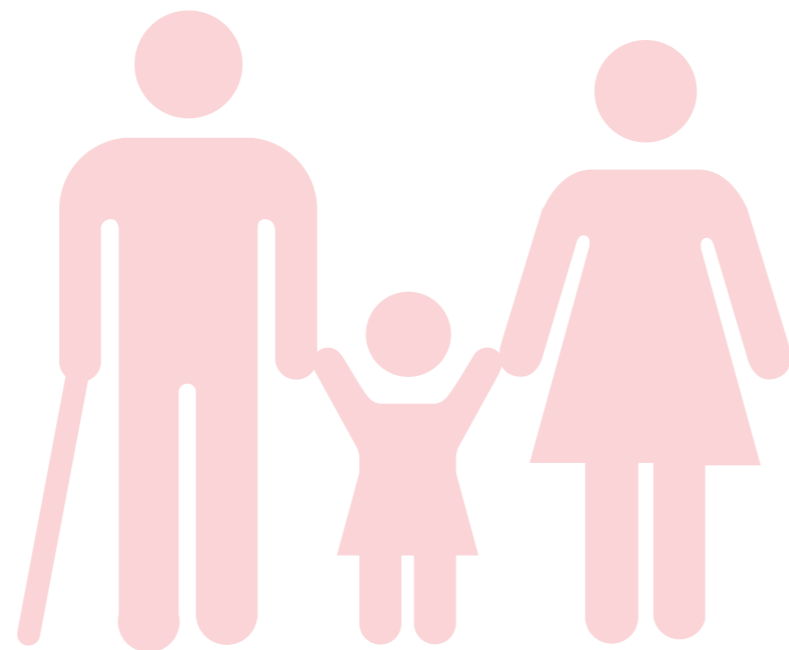
Since 2019, the NTTU has consistently partnered with the Vu A Dinh Scholarship Fund and the Club "For Beloved Paracel-Spratly" in providing help for students facing challenging situations in accessing educational resources. During the time frame spanning from 2020 to 2022, the university actively engaged in fundraising efforts aimed at constructing educational facilities on Truong Sa Island and Sinh Ton (Sin Cowe) Island. Additionally, the institution dispatched its personnel to visit military personnel and civilians residing on the Spratly Islands. In commemoration of the 10th anniversary of the journey titled "For Beloved Spratly," NTTU provided sponsorship for the establishment of a reading room in Spratly Town, and a total of 200 scholarships were granted to students residing in coastal and island regions with a total amount of VND 580 million.

In conjunction with its scholarship policies, NTTU has implemented ways to facilitate the application process for students who excel academically despite facing challenging familial situations, enabling them to seek scholarships from external sources. Scholarships were awarded to a total of 82 students in various categories. Among them, 06 outstanding students were granted scholarships from the Vu A Dinh Scholarship Fund, the Ministry of Science and Arts of the State of Hessen, and the World University Support Organization of Germany. Additionally, 46 students from the Faculty of Tourism and Vietnam received scholarships from the Saigon Trade Foundation, with each scholarship valued at VND 5,000,000. Furthermore, 10 students facing challenging circumstances were awarded scholarships from DP Nhat Anh Company Limited, with each scholarship amounting to VND 5,000,000. Lastly, 20 students from the 2018, 2019, and 2020 cohorts were recipients of business scholarships from VietCredit, with each scholarship valued at VND 3,500,000.



**Support for students from low- and lower-middle-income countries**

In conjunction with the scholarship policy, the institution implements tuition waiver and reduction programs to provide support to various cohorts of overseas students facing very difficult situations. During the academic year 2021-2022, a total of 04 international students were granted scholarships to incentivize their pursuit of higher education. Additionally, 01 international students facing challenging circumstances received financial assistance amounting to a 10% reduction in their overall course fees. In addition, international students, particularly those from Laos and Cambodia, received assistance in accommodations inside the dormitory and were provided with support for their well-being through cultural, artistic, and sports engagement at NTTU. In addition, the university has implemented a club aimed at facilitating the interaction and practice of the Vietnamese language among overseas students.



N O P O



Advisory programs	Financial aids
<ul style="list-style-type: none"> <li>Fostering business administration and operations skills (in coordination with the Tra Vinh Provincial Business Incubator).</li> <li>New era business paradigm transformation (Kien Giang).</li> <li>Enhance the production and marketability of local media in Tam Nong and Tan Hong (Dong Thap).</li> </ul>	<ul style="list-style-type: none"> <li>06 contracts for capital-raising support totaling 1 billion VND each</li> <li>02 contracts for startup project mentors (HCMC and Kien Giang)</li> </ul>



**Poverty eradication program in the community**

In pursuit of sustainable development, NTTU engaged in collaborative efforts with local authorities in Tra Vinh, Kien Giang, and Dong Thap provinces to offer advisory services, training programs, and financial assistance packages to aspiring entrepreneurs.

As part of the 14th Spring Volunteer Campaign and community service in 2022, NTTU volunteers have contributed to the development of humanistic values and the improvement of access to essential services for a wide range of individuals across the nation:

- Visiting 30 policy families, families with meritorious contributions to the revolution, and families in difficult circumstances; presenting 250 Tet gifts to families of workers, pediatric patients, poor patients treated in hospitals, orphans, disabled children, and children in difficult circumstances who lost relatives as a result of the epidemic; providing 320 free meals for lonely and destitute elderly individuals
- Organizing a meeting and distributing gifts to 100 students celebrating Tet away from home in 2022 under the theme "Xuan Nham Dan (Ren Yin Spring): Bring Love Closer"
- Presenting 4,920 gifts (total value: 246 million VND) and 325 scholarships (total value: 125,500,000 VND) to disadvantaged children On the occasion of the Mid-Autumn Festival



V E R T Y

N O P O V E R T Y



## 2 ZERO HUNGER



- **200** people served by the canteen simultaneously
- **\$1.25** meals
- **01** mini supermarket, Coop. Smile
- **1,466** students supported with staple food
- **39** international students provided with daily meals
- **01** business granted access to facilities for food research and development
- **13,000** free meals and **1,000** portions of staple food to students and disadvantaged people, and **56** scholarships to students in difficult circumstances in HCMC by the Faculty of Tourism.
- **Farmer Training Program:** Implementation of the project The Study on the Sustainable and Environmentally-Friendly Management of Ailments in Aloe Vera to Enhance Productivity and Quality (Farmer Training Program)



Since 2015, the issue of hunger and food insecurity has been further aggravated by the global pandemic, ongoing conflicts, the adverse impacts of climate change, and the widening gap of inequality. Based on projections provided by the United Nations (2023a), it is anticipated that approximately 670 million individuals will continue to experience food insecurity by the year 2030. This figure corresponds to 8% of the global population, and it remains unchanged in comparison to the estimated 589 million individuals facing hunger in 2015. In order to fulfill the objective set forth by the United Nations to eradicate global hunger by the year 2030, it is imperative to undertake prompt initiatives that center around the transformation of food systems, guaranteeing food security, and allocating resources towards sustainable agriculture techniques.

NTTU promotes behavior modification initiatives through education and communication in order to foster collaboration in addressing hunger and promoting resource sharing in the post-pandemic context. One of the key initiatives is establishing a cost-effective provision of sustenance, beverages, and potable water within the campus premises, catering to the needs of both students and faculty members. Additionally, the institution also implements several programs aimed at facilitating access to nourishment for the wider community.



**Food source for students**

As of 2021, notable enhancements have been made to the aesthetics and functionality of the university's cafeteria, resulting in a contemporary, expansive, cozy, and courteous environment. The aforementioned facilities serve as the designated locations for its placement. The provided information includes three addresses in different districts of a city. The first address is 300A in District 4, the second address is An Phu Dong in District 12, and the third address is Nguyen Huu Tho in District 7. The designated space provides breakfast, lunch, and access to potable water, with the aim of upholding nutritional standards and hygienic protocols for the entire student body, faculty, and staff during designated break periods. <https://ntt.edu.vn/tien-ich-3/>



**Available sustainable food options on campus**

In addition to the optimal physical environment of the school canteen within the university campuses, there exists a collaborative effort to enhance and broaden the food options available to students, thereby catering to their fundamental dietary requirements. NTTU has recently established a Co-op Smile store on its campus premises. Concurrently, the institution has made modifications to its diverse array of menus, encompassing both meat-based and vegetarian options, in order to provide flexible breakfast, lunch, and supper services at the cafeteria on a daily basis.



In addition to the extensive and varied culinary offerings available in the school cafeteria, much attention is given to the selection of main meals, which are prepared using a range of cooking methods such as frying, steaming, and braising. These cooking techniques enhance the nutritional value of the dishes, promoting the well-being of both students and staff who partake in them. The multi-course dinner offers enhanced culinary experiences and intricate preparation techniques while remaining affordable for students.

Z E R O H U N G E R



### Join hands to care for different students affected by

To promptly provide assistance and demonstrate the university's commitment to students encountering challenges during the outbreak, the Youth Union and Student Union have effectively implemented the program. A total of 1,466 students were beneficiaries of the initiative, each receiving a present valued at VND 300,000. These gifts were provided to ensure that students had access to essential necessities. Furthermore, the university offers financial assistance for daily sustenance to a group of 39 international students from Laos and Cambodia. These students are presently residing in the university's dormitory as part of the mandatory quarantine period. The Union allocated a total of VND 469.1 million for the provision of care and assistance to students, with VND 319.1 million dedicated to socialization efforts.



Free meals being prepared in NTTU Tourism Faculty's kitchen



During the period of the pandemic, the Tourism Faculty at NTTU provided around 13,000 free meals and 1,000 portions of staple food items to both students and individuals experiencing destitution. Additionally, the faculty awarded 56 scholarships to students facing challenging circumstances in HCMC.



HUNGER ZERO



### The Study on the Sustainable and Environmentally Friendly Management of Ailments in Aloe Vera to Enhance Productivity and Quality

(Science and Technology Project, Contract No. 05/2019/HD-SKHCN-Department of Science and Technology Ninh Thuan)

Crop diseases are well recognized as a serious biological limitation that results in substantial crop losses on a global scale. The approach of Integrated Disease Management (IDM) involves the comprehensive integration of biological, cultural, physical, and chemical control methods to manage diseases, as opposed to the application of individual control measures. This approach has been demonstrated to be more effective and sustainable in disease management.

This study initially assessed the disease status of aloe vera and subsequently employed an integrated methodology to address the various components of disease management for aloe vera agriculture in the Ninh Thuan region. The idea was then effectively showcased and disseminated to farmers via training initiatives and field seminars.



Status of handling diseased aloe vera plants by farmers  
(A) Uproot the diseased plants, focusing on the top of the irrigation ditch.  
(B) Collect residual materials(diseased plants, plants damaged by other causes) into piles in the middle of the field.

Integrated Disease Management (IDM) is the practice of monitoring and implementing comprehensive and timely approaches to management. These encompass the careful selection and preparation of soil for optimal planting conditions, the utilization of plant varieties that possess resistance against diseases, the adoption of alternative growth methods, and the adjustment of environmental factors through practices like drainage, irrigation, pruning, thinning, and other relevant techniques. In cases where it is deemed necessary, the application of fungicides can also be considered part of the disease management.

In addition to conventional metrics, it is imperative to incorporate the monitoring of environmental variables, forecasting disease outbreaks, and creating economic thresholds into management strategies. In order to optimize the advantages of each component of the IDM process, it is essential to implement these measures in a coordinated and cohesive fashion. The effective implementation of IDM techniques continues to rely significantly on the training and awareness initiatives targeted at farmers, plant protection officers, agricultural extension agents, and local managers.



### Workshop on the selection of integrated disease management factors for aloe vera plants

Training and transferring the integrated disease management (IDM) process on aloe vera to participating farmers in Ninh Thuan



### Field seminar on the application of integrated disease management (IDM) on aloe vera plants in Ninh Thuan

Alongside the provision of training for aloe vera cultivators, the implementation of the Integrated Disease Management Process model was also introduced and summarized during a field conference held in Van Hai ward. The participants in this study consist of households that have adopted the model, aloe vera farmers residing in close proximity to the model implementation area, as well as representatives from the Economic Department of Phan Rang-Thap Cham city, the People's Committees of Van Hai and My Binh wards, and the Agricultural Association representatives.



Experimental model of IDM processes in My Binh and Van Hai's 1.5-year-old garden

(A, C) Model 1 month after applying the process, August 2021;

(B, D) Model 7 months after applying the process, March 2022



### Access to university facilities for local farmers and food producers

Training and transferring the integrated disease management (IDM) process on aloe vera to participating farmers in Ninh Thuan



Food Research and Development Lab

# ZERO HUNGER

### 3 GOOD HEALTH AND WELL-BEING



- **Medical cooperation** with the Department of Education and Training, People's Committee, Medical Station, and National University in Ho Chi Minh City
- **Certificate of Merit** for people's health protection and care, by the Prime Minister
- **Ho Chi Minh City's youth:** overcoming the fear of pandemic
- **Companion Doctor:** Support Call Center 1022
- **200** students in supporting pandemic prevention
- **20** units of blood from the Spring Volunteer
- **180** free meals for lonely elderly people in HCMC
- **"Spring Share: Full of Tet"** playground, scholarships, and gifts
- **Women's** reproductive health education
- **134** cases with personal consultation and psychological support suffering from pandemic



The issue of healthcare inequality has emerged as a pressing concern in the aftermath of the epidemic, particularly in low- and middle-income nations whose health infrastructures remain underdeveloped. These discrepancies are impacted by various factors, including socioeconomic status, gender, and geographical location, resulting in limited accessibility to healthcare services, hence exacerbating gaps in health outcomes and perpetuating the intergenerational cycles of poverty and sickness. The United Nations (2023a) asserts that the resolution of health disparities is not solely a question of social equity but also plays a crucial role in attaining sustainable development objectives and fostering the creation of more robust and healthier communities.

As one of the universities approved by the Ministry of Education and Training to offer training programs in the health sector, NTTU has contributed to enhancing access to healthcare services, minimizing disparities, and promoting health equity. Through research activities, support services, and collaboration with social organizations, the university has contributed to enhancing health care delivery and reducing disparities in access opportunities for both learners and local people. Not only that, but NTTU's student and staff education activities foster a culture of advocacy and social responsibility. The school consistently encourages students to engage in community service and volunteer work to raise awareness about health care disparities. From there, we intend to empower future generations of health care professionals to actively contribute to eradicating this inequality.



### Health cooperation program between the university and local and national health organizations

NTTU and its students have consistently integrated their training responsibilities with social responsibilities by actively engaging in various efforts to combat the epidemic. These initiatives include participating in tracing and sampling activities in local areas, providing guidance for medical declarations, and offering support for vaccination at medical facilities, hospitals, disease control centers, and resuscitation hospitals, among others. In which the institution engages in collaborations with local organizations to implement:



- Support to vaccinate against for students under 18 in coordination with the Department of Education and Training;
- Support vaccination for students who have not been vaccinated or have not received enough doses, in coordination with the District 4 People's Committee, Ward 13 Health Station, District 12 People's Committee, and An Phu Dong Ward Medical Station, to accelerate vaccination for District 4 and District 12 residents;
- Support medical work for Vietnam National University HCMC competency assessment exam applicants at Nguyen Tat Thanh University in conjunction with Tan Hung Ward Medical Station, District 7, and An Phu Dong Ward Medical Station, District 12.

NTTU was delighted to receive a certificate of merit from the Prime Minister for its relentless contributions to the prevention and control of the epidemic, as well as its contributions to the cause of safeguarding and caring for people's health. This noble certificate has a very significant meaning, assisting in the positive effects and propagation of good humanistic values to inspire each NTTU staff member, lecturer, and student to join hands with the community in repelling the pandemic.

NTTU was awarded a certificate of merit by the Prime Minister.





### Volunteer programs in support of the community

NTTU promotes a sense of community through a variety of meaningful activities, such as coordinating health screenings, humanitarian blood donation, family planning propaganda, and sports exercise movements, among others. They consist of conventional actions such as:

- Mobilizing soldiers, union members, and youth to participate in the video clip creation contest with the theme "Youth in Uncle City: Overcoming the Fear of nCov" coordinated by the Steering Committee of the City-level Volunteer Spring Campaign implemented by Green + Financial Investment Group, with the companionship and sponsorship of NIPPON Paint Vietnam Co., Ltd., Hoa Binh Construction Group Joint Stock Company, and Vietnam Real Estate Switchboard Joint Stock Company. This activity contributed to the goal of the health care initiative for 5 million people, "For a Healthy Vietnam," by updating knowledge and improving people's health. In particular, young people want to spread the message of taking care of their own and their families health and working together to combat the pandemic.



- Supporting 52 volunteer students to join the "Companion Doctor: Support Call Center 1022" of the Youth Union in consulting, monitoring, guiding, and caring for F0 cases treated at home; facilitating the data entry of vaccination in Cat Lai ward, Thu Duc city; More than 200 students volunteered to support the prevention of the epidemic at the field hospital No. 16, Gia Dinh People's Hospital, the treatment hospital, and localities throughout the Tet period

- Providing 180 free meals to elderly persons in Ho Chi Minh City who are alone and in need.

- Participating in propaganda and mobilizing people to participate in the blood donation activity held at the People's Committee of Ward 13, District 4, and notably, with 20 blood units from the volunteer spring soldiers, helped express the spirit of solidarity and make this activity more meaningful than ever.

- Implementing the "green environment, green lifestyle" concept of complete hygiene on the region's roads and in the vaccination zone; cleaning up the backlog at garbage collection points; renovating, repairing, and repainting facilities for children in District 4, District 12, Binh Thanh, and Thu Duc City



- Organizing cultural and sports exchanges between Border Guard soldiers and Volunteer Spring soldiers. NTTU also had the opportunity to give out handmade greeting cards for the Tet holiday for soldiers on duty.

- Sports activities for students and staff within the university or with localities and outside organizations

- Plan No. 135/KH-NTT, June 29, 2022, Organization of the Open NTTU International Student Football Tournament in 2022

- Plan No. 293/KH-NTT, November 30, 2022, Organization of the Student Football Tournament of Nguyen Tat Thanh University in 2022

- Organizing the festival program "Spring Share: Full of Tet", which included a children's playground, three scholarships to disadvantaged students with good academic achievements, 40 gifts for youth in difficult circumstances and suffering the consequences of the pandemic, and 150 delicious meals sent to lonely elderly people and people in difficult circumstances in Ward 10, District 4.





## Access to health care services for students and employees

Health checks for new students of all courses in accordance with Minister of Health Circular No. 14/2013/TT-BYT from May 6, 2013.



Series of educational and propaganda seminars for the AY 2021-2022 students



Health education and propaganda program with the theme "Reproductive health education for female students"



Psychological Counseling Room  
Students can write  
[phongthamvantamlynttu@gmail.com](mailto:phongthamvantamlynttu@gmail.com),  
<https://www.facebook.com/thamvantamlykhgdnttu/>, phone the hotline,  
or schedule a consultation with the counselor



## Volunteer programs in support of the community

- Decision No. 36/QĐ-NTT, January 22, 2013, Section I for Students, Article 4: Smoking and injecting drugs are strictly prohibited. and use of other stimulants, and Section II for Officials, Lecturers, and Staff, Article 5: Smoking, drinking alcohol, beer, and using other stimulants are strictly prohibited in the school area.
- Decision No. 635/QĐ-NTT on the Project "Students' Code of Cultural Conduct in the 2016-2021 Period" to promulgate and apply to all students. Chapter 2. Code of Conduct Student culture: Article 7. Conduct in learning and training: Section 5. Proper manners (wearing a Student ID card when going to school, wearing a uniform on a specified date, etc.) Do not use phones during class, do not smoke on campus, and do not drink alcohol or beer at school.
- Student handbook for the 2021-2022 school year in Part 3: Student Affairs, Section 3.1 Cultural behavioral standards of students on page 47.



# GOOD HEALTH AND WELL-BEING



## 4 QUALITY EDUCATION



- **Open access** to learning resources and support documents for those not enrolled in university.
- **447** times, non-students accessed the facilities for free to study and research
- **Seminar:** "Legal responsibility for notary activities according to Vietnamese law"
- **01** road constructed for the advancement of Ben Tre agricultural tourism
- **50** scholarships from the Relay to School Scholarship Fund
- **05** scholarship packages (VND 50 billion) for new students
- Journey to Conquer the Dreams
- Recruitment Day



The United Nations (2023a) estimates that a staggering 84 million young individuals remain deprived of education, while approximately 300 million students lack essential literacy and numeracy skills crucial for their future success.

Regarding Vietnam's progress in achieving the Sustainable Development Goals (SDGs) for children, as reported by UNICEF (2022), significant strides have been made in the country's education sector. However, notable disparities persist in terms of educational access for certain segments of the population. This includes children belonging to ethnic minorities, those from low-income families, and children with disabilities, who continue to face challenges in accessing quality education. During the period 2011–2020, the "Children Development Index" for ethnic minority children tends to decline from 64.8% (in 2011) to 62.2% (in 2020). Similarly, the disparity rate between ethnic minority children and Kinh children in 2020 was 62.9% and 81.4%, respectively. In addition, ethnic minority children are significantly less likely than Kinh children to attend lower secondary school at the appropriate age (82.8% versus 94.5%).



#### Open learning resources

According to the Information Center-Library Regulations, the university encourages non-students to use learning materials, services, utilities, and facilities at the library. Ebooks, specialty articles, and university research papers are free online instructional tools. The school library allowed 447 non-students to utilize facilities and equipment for free study and research in 2021–2022. The University Library advises and supports non-students' documents via email, Facebook, chatbox, and phone in addition to direct support.

<http://elib.ntt.edu.vn/default.aspx?mnuid=11>



#### Organizing public events at the university

##### Symposium on the legal responsibility for notary activities under Vietnamese law

The Faculty of Law at Nguyen Tat Thanh University, in collaboration with the Manh Hung Group, successfully organized a symposium to research and analyze the current legal regulations on notarization, assess the situation of law implementation in the field of notarization in Vietnam, and then propose and recommend solutions to improve the law. Prominent experts, lawyers, and legal scholars attended the symposium. In the workshop, 18 papers on a variety of topics were presented, including: liability to compensate for damage in notarization activities; state management over notarization activities; criminal liability in notary activities; the role and legal value of notaries; and the notary model in the world, perfecting the model of the notary office in Vietnam.



#### Ben Tre: Fostering agricultural tourism development

The team implementing the project at the Faculty of Tourism guided farmers in Thanh Phu district to create tourism products from agricultural products, with a concentration on camping, sightseeing, experiencing, culinary, and crop work. With the assistance of the research team, a vacant field was transformed into a road lined with two rows of small areca nuts and moss roses. In approximately three years, the field will be lined with two gorgeous rows of areca nut trees.



**Welcoming high schoolers to visit the Tourism practice facilities**

The team implementing the project at the Faculty of Tourism guided farmers in Thanh Phu district to create tourism products from agricultural products, with a concentration on camping, sightseeing, experiencing, culinary, and crop work. With the assistance of the research team, a vacant field was transformed into a road lined with two rows of small areca nuts and moss roses. In approximately three years, the field will be lined with two gorgeous rows of areca nut trees.



**Giving 500 million VND to the Support to School Fund**

As part of the connection mechanism between the university and the University Support Scholarship, which accompanies the Tuoi Tre newspaper, 50 scholarships worth 10 million VND each were awarded to new students enrolling in the university.



5 scholarship packages worth 50 billion VND – A source of support for new students



The Journey to Conquer the Dreams

**Recruitment Day**

Nguyen Tat Thanh University coordinates annually with agencies and businesses to promote counseling, career orientation, and employment placement for students, as well as to serve and address social needs. This facilitates students' ability to find suitable employment; businesses can recruit youthful, high-quality human resources.



## 5 GENDER EQUALITY



- **49.7:50.3**, Number of female senior scholars/Total senior scholars
- **Equal privileges** for women and men to receive salaries, bonuses, and other benefits
- English Vietnamese American Preschool and Primary School's preferential policies for university employees' children
- Students' workshop on reproductive health, family planning, and health prior to marriage
- Training in self-defense for female students
- She Future: A Female Student Start-up in 2022
- **20%** reduced tuition for first-year female students admitted to specific disciplines policy



Gender equality is a global objective aimed at establishing progressive and sustainable societies. However, significant gaps persist worldwide, as highlighted by the United Nations (2023a). Many countries lack legislation to prohibit discrimination against women, maternity leave provisions are insufficient in numerous nations, and a considerable number of young women marry before reaching 18 years old. In Vietnam, there is a notable gender disparity, with the country ranking 87th out of 153 nations in the global gender gap index. Women in Vietnam face lower average annual incomes compared to men, and the proportion of female entrepreneurs is lower than that of men (World Economic Forum, 2020, p. 361). These statistics emphasize the presence of gender inequalities within Vietnam.

Education is an urgent issue that aims to enhance the human capital of nations, with particular significance for the empowerment of women. Hence, it is crucial for universities to actively participate in the advancement of strategies aimed at fostering gender equality, enhancing consciousness, and eradicating gender-based bias. NTTU effectively showcases its commitment to addressing inequality through multiple efforts. These include implementing policies that involve recruitment, training, nurturing, and employee welfare. Additionally, the university has established enrollment policies and offers scholarships specifically aimed at supporting female students. Furthermore, NTTU actively engages in health care activities and safeguards women's rights during the process of studying and teaching within the institution.



The ratio of senior female scholars to the total number of senior scholars at NTTU is 49.7:50.3.



**Female employees working at NTTU**

The labor regulations and recruitment regulations of Nguyen Tat Thanh University are constructed in accordance with the provisions of the 2019 Labor Code. The labor regulations and the Labor Code explicitly outline recruitment and employment principles. "Discrimination in labor" (Clause 1, Article 8 of the 2019 Labor Code) and "Sexual harassment in the workplace" (Clause 3, Article 8 of the Code) are prohibited employment practices. Work 2019). The recruitment procedure must adhere to democratic, open, and transparent principles.

The processes of recruiting, hiring, and appointment are contingent upon the evaluation of specific criteria, including qualifications, experience (as assessed through examinations and the review of recruitment materials), and working attitude (as determined through either in-person or virtual interviews). The results of labor assessments determine salary payment, job assignment, and career advancement, while the need to improve the school's competence and unit drives staff training. NTTU has implemented a policy that ensures equitable remuneration for both men and women who perform comparable labor. Women are afforded equal rights to men in terms of collecting salaries, bonuses, and other associated benefits. Additionally, there exist specific policies tailored for female employees, such as maternity plans, leave policies, the provision of a child care facility, and gifts on holidays.



**On March 8th**, NTTU commemorated International Women's Day by hosting a series of events, including a cooking contest, a floral arrangement activity, and the distribution of cakes.



"Gathering Tet, Peaceful Spring"

GENDER EQUALITY



### Happy Vietnamese Women's Day October 20



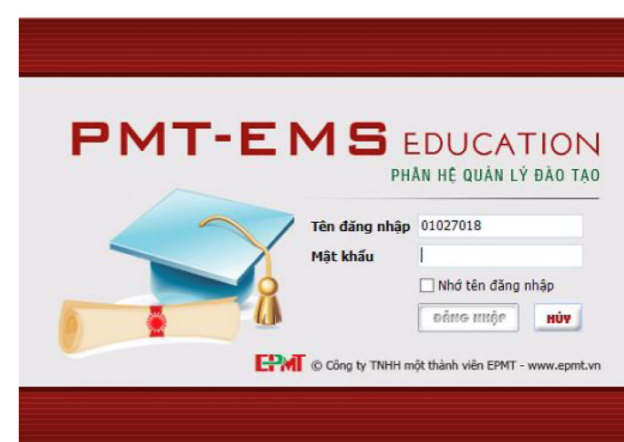
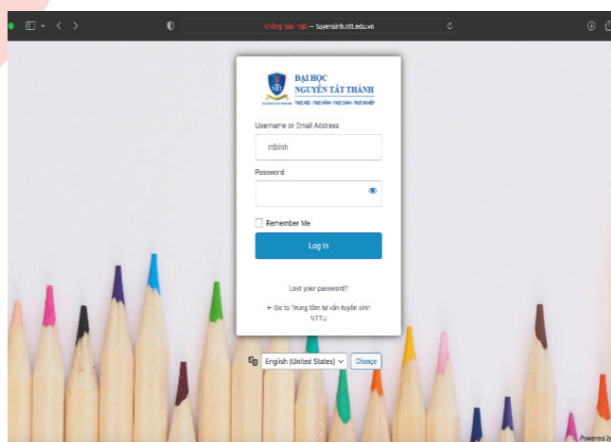
**EVA (the English Vietnamese American Kindergarten and Primary School)** is located next to NTTU. Both are subordinate units of TEXGAMEX-VN. There are two main educational systems at the EVA: kindergarten and primary school, with the motto "love as the foundation", "always respecting the differences of each individual", and "constantly aiming for total development", providing global-quality education to Vietnamese pupils in the pursuit of inclusion, inspiring success, extending scientific knowledge, broadening perspective, rising in career, and addressing the country's and the world's socioeconomic development needs. The school always provides preferential policies for the children of staff and faculty so that they feel secure while working at NTTU.



**Family moonlight night:** joining the joyful atmosphere of children across the country who were about to welcome a new Mid-Autumn Festival season, with the support and facilitation of the leaders of NTTU and the Union base coordinated with the Youth Union to organize "Family Moon Night" for the children of NTTU's employees.



**Monitor approaches to supporting learners systematically** through software that tracks application rates, matriculation rates, or admission rates of female students.



# GENDER EQUALITY



### Female student enrollment and admission policy

NTTU provides extracurricular events for students on a regular basis, and it is always concerned with encouraging and organizing activities for female students, such as self-defense training courses. Workshops on health education for female students, volunteer activities such as Green Summer, test season assistance, pandemic prevention, etc.



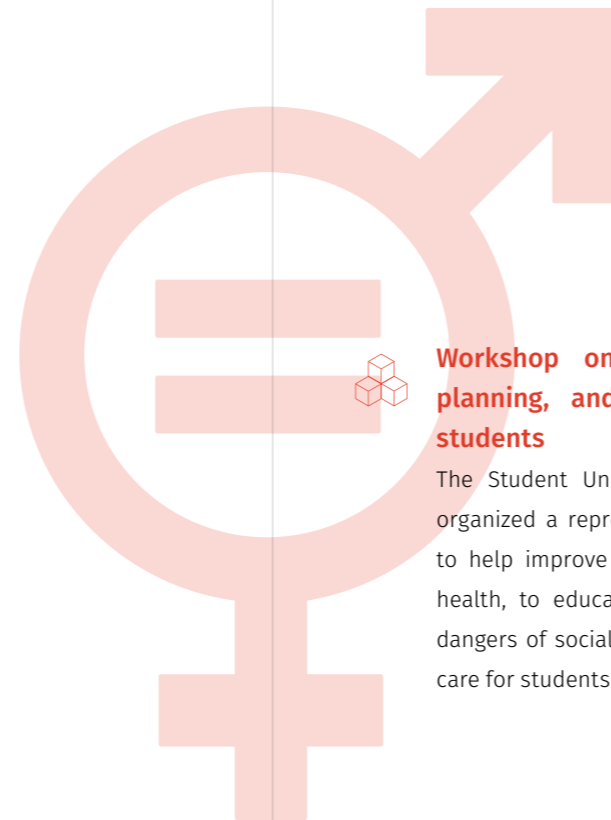
### Self-defense training for female students

With the intention of assisting NTTU female students in improving their self-defense skills in order to protect themselves from potentially dangerous situations in life. Under the supervision of Master Nguyen Van Ka, Director of the Martial Arts Center in the South, the Student Union of the University, arranged a "self-defense training course for NTTU female students" at both campuses in District 4 and District 12. A significant number of female students enrolled in the class. The lesson was highly fascinating and effective because of the fresh and relevant practical information and the enthusiastic spirit of each student.



### International Women's Day Greetings!

Women's love, beauty, and silent sacrifice have made our lives more meaningful and worthwhile. At all times and in all situations, women are always revered and safeguarded. Every family's wonderful women deserve to be recognized and thanked by the entire social community.



### Workshop on reproductive health, family planning, and health before marriage for students

The Student Union at Nguyen Tat Thanh University organized a reproductive health seminar for NTTU-ers to help improve students' knowledge of reproductive health, to educate and spread awareness about the dangers of social pathogens, and to show concern and care for students.



G E N D E R E Q U A L I T Y

**A group of female students from Nguyen Tat Thanh University won prizes at the She Future competition, Female Startups in 2022**

She Future: Female Entrepreneurship 2022" was a contest organized by ForGood Vietnam and the University of Economics and Finance of Ho Chi Minh City (UEF) to encourage and develop creative thinking and business inspiration among women, thereby contributing to the realization of the national goals on business development and the national strategy on gender equality.



The product "Herbal hand and foot bath" by students Nguyen Ha My Van and Nguyen Thi Ngoc Diem (Faculty of Pharmacy), guided by pharmacist Nguyen Linh Tuyen, excellently won the second prize overall

The product "Development of natural essential oil dry perfume production in Vietnam" won the consolation prize

**Access to Information Mechanisms for Female Students**

NTTU aims to implement a strategy of implementing programs and activities to promote the development of soft skills and raise awareness of reproductive health among students, specifically female students. The programs have contributed to significant changes and had a positive effect on students' awareness and actions by establishing information channels and promoting communication. These efforts assist students in gaining confidence and taking charge of their lives.

**THÔNG BÁO TIẾP NHẬN HỒ SƠ XÉT CHỌN PHẦN THƯỞNG NỮ SINH VIÊN TIÊU BIỂU TRONG LĨNH VỰC KHOA HỌC CÔNG NGHỆ NĂM 2021**

Thời gian nhận đăng ký: Từ ngày ra thông báo đến 17h00 ngày 25/10/2021 (Thứ 2)

Thông báo chi tiết: <https://bom.to/FJ5qRk>

Đăng ký tại:

Mọi thông tin thắc mắc vui lòng liên hệ: Đ/c Nguyễn Mai Thanh Trúc - Chánh VP Đoàn trường - 0985257190

<https://forms.gle/FPW2i4XqrK4iXFHR6>

Female students in the field of science and technology

**Scholarship policy reduces tuition**

for the first year of study by 20%; female students are admitted to the fields of Industrial Systems Engineering, Electrical and Electronics Engineering Technology, Mechatronics Engineering Technology, Construction Engineering, Interior Design, Architecture, etc.



## 6 CLEAN WATER AND SANITATION



- Code of water protection
- Media section about water resources
- **6857.22 m3**, average amount of water used per month
- **2.63 m3**, average water used per capita
- Competition: "The Life Cycle of Plastic"
- **150 meters** of canals cleaned from garbage and water clogging
- Project "Technology Selection and Potential Application of IOT Technology in the Desalination System to Supply Domestic Water to People in Saline Intrusion Areas, Ben Tre Province"
- Workshop "Monitoring microplastic waste pollution instead of the traditional biological indicator of monitoring bivalve molluscs: a new dominant solution contributing to assessing the level of hydrosphere environmental pollution"



**2030** aims to ensure that all people have access to safe water and sanitation. In 2020, 74% of the global population will have access to safely managed potable water, up from 70% in 2015. However, 1.2 billion people still lack even the most fundamental services, primarily in rural areas and developing nations (United Nations, 2022). In Vietnam, due to the effects of climate change and the recent pandemic, regulating water quality and pollution and making efficient use of water resources remains difficult.

A Code of Water Protection has been implemented at NTTU to protect water quality and reduce pollution hazards in the area. The school promotes water conservation in the community through educational programs and events aimed at encouraging students to use water more responsibly. Annually, the research groups at NTTU organize scientific research initiatives to implement water management solutions in collaboration with local governments.

The remainder of the world can continue to exist without us, but we cannot continue to exist without the environment in which we reside.

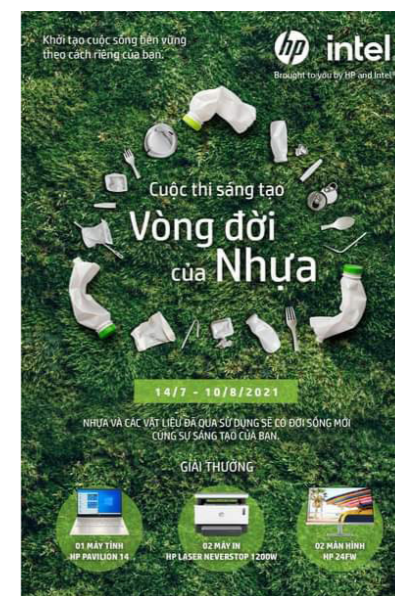
The screenshot shows the NTTU website with a navigation bar containing 'TRƯỜNG ĐẠI HỌC NGUYỄN TẮT THÀNH', 'Tuyển sinh', 'Xét tuyển trực tuyến', 'Đào tạo', 'Nghiên cứu', 'Hợp tác doanh nghiệp', 'Hợp tác quốc tế', 'Sự kiện', and 'Liên hệ'. The main content area features an article titled 'Về nguồn nước' (About water sources) with a detailed text about plastic waste and water pollution. Below the article are three featured images with captions: 'Trường ĐH Nguyễn Tất Thành tổ chức Ngày chủ nhật xanh' (NTTU organizes Green Sunday), 'Vì sao phải bảo vệ môi trường biển?' (Why must we protect the marine environment?), and 'Hãy cùng nhau nhặt rác, giữ môi trường xanh-sạch-đẹp' (Let's pick up trash together, keep the environment green-clean-beautiful).



**Water sources protection within and outside the campus**

The Water Sources Protection Code has been implemented by NTTU in order to underscore the need to maintain clean water. The code encompasses a range of regulations pertaining to the reduction of plastic waste, the prohibition of disposing cooking oil directly into sewer lines, the restriction on the usage of cleaning chemicals, the promotion of water-saving devices, the prohibition of discarding cigarette butts in toilets, the limitation on the application of pesticides in plant maintenance, the exploration of strategies for utilizing rainwater in irrigation, and the implementation of hygienic practices in garbage collection areas to prevent the contamination of water sources by waste liquids. These methods have played a significant role in safeguarding water quality and mitigating the potential threats of pollution in the region.

In addition, through educational programs and events, NTTU actively promotes water conservation in the local community. The "Plastic Lifecycle" Innovation Contest 2021 was established in collaboration with HP and Intel to increase awareness of the harmful effects of plastic waste and promote recycling. Within the context of the program "The 144th Green Sunday", NTTU Youth Union volunteers also participated in general cleaning activities, encouraging people not to litter and fishing on Nhieu Loc canal, District 1. At the same time, in District 12, other volunteers cleared and cleaned 150 meters of the Tho Bo canal, an area where garbage and water ferns had clogged the canal.

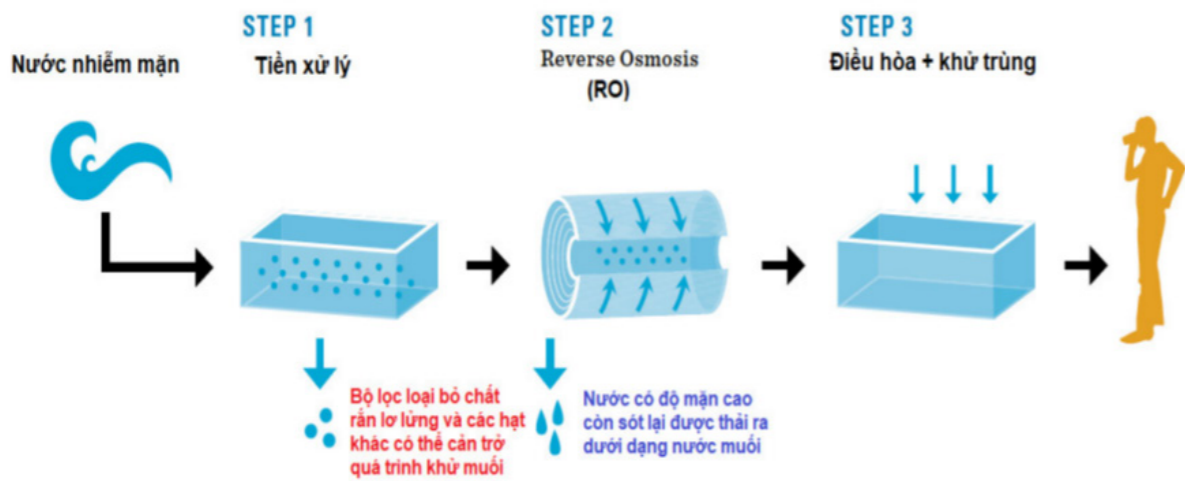


CLEAN WATER AND SANITATION

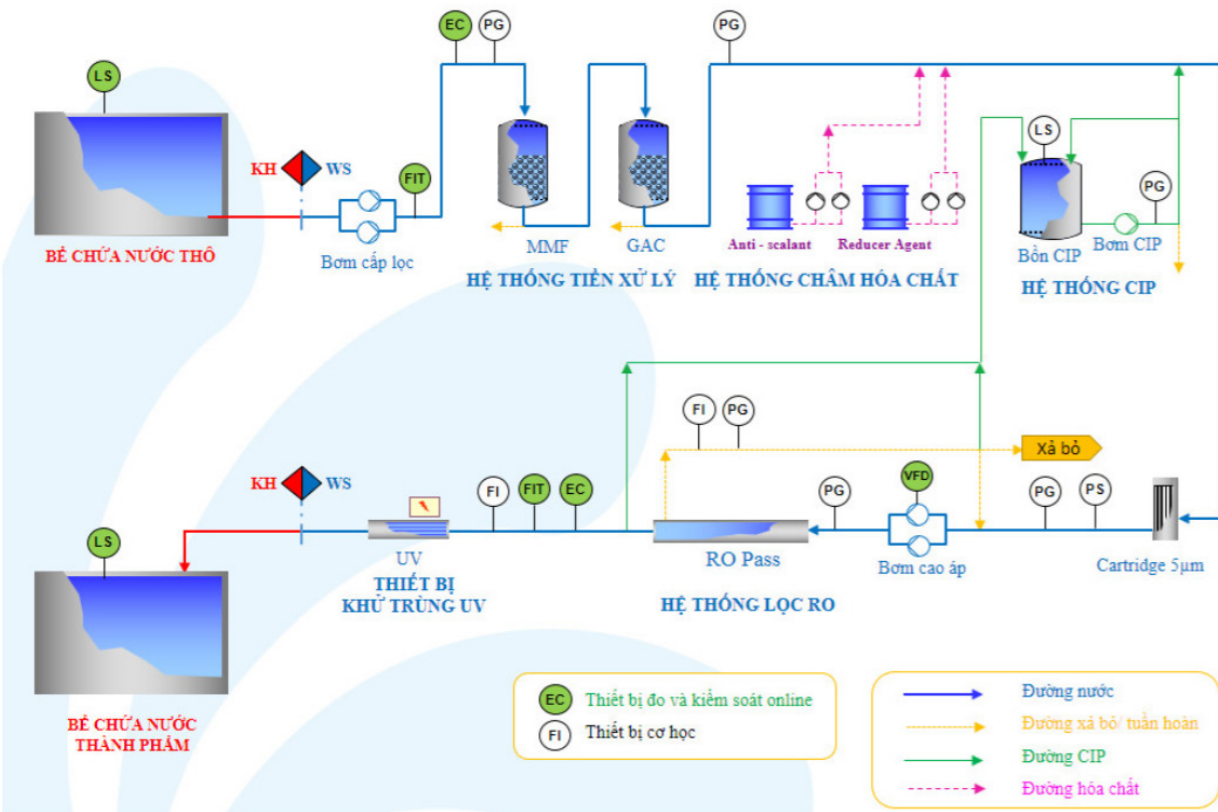


### Cooperation regarding aquatic safety

Under the project titled "Technology Selection and Potential Application of IOT Technology in the Desalination System to Supply Domestic Water to People in Saline Intrusion Areas, Ben Tre Province", a team of researchers from NTTU has collaborated closely with the Department of Science and Technology of Ben Tre Province. The objective of this collaboration is to develop a pilot desalination treatment system with a capacity of two m<sup>3</sup>/day and night and to integrate IoT technology for automating and controlling the simplest processes, optimizing energy consumption, and facilitating the transfer of practical technology to regions with limited human resources.



Hình 3. Quy trình xử lý nước nhiễm mặn bằng công nghệ RO có tiền xử lý.



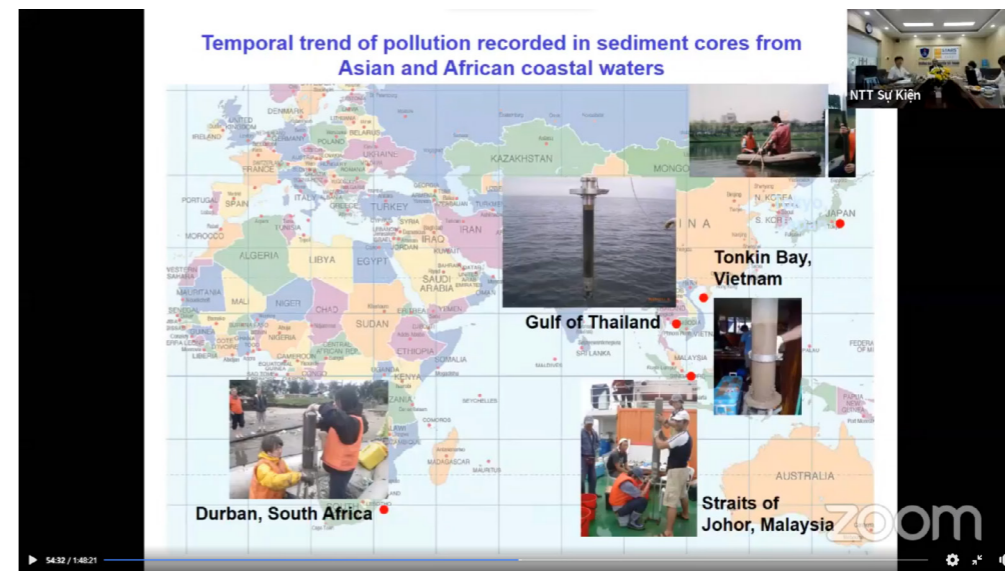
Hình 8. Sơ đồ hệ thống xử lý nước nhiễm mặn RO kết hợp IOT.



### Promoting responsible water use

In February 2022, NTTU held a seminar titled "Monitoring microplastic waste pollution instead of the traditional biological indicator of monitoring bivalve molluscs: a new dominant solution contributing to assessing the level of hydrosphere environmental pollution".

During the session, the guest speaker engaged in a discourse with professors, researchers, and university students regarding the ramifications of plastic products on individuals' livelihoods. In addition to the advantages associated with consumption, there were environmental and sustainable development difficulties. Research on environmental contamination has increasingly centered around plastic trash, which has reached a staggering amount of approximately 6.3 billion tons as of 2015. It is projected that by the year 2050, approximately 12 billion metric tons of plastic trash will have been deposited in landfills or released into the natural environment. The Vietnamese government has established a comprehensive "National Action Plan on Ocean Plastic Waste Management to 2030" with the aim of mitigating the hazards and consequences associated with plastic debris, particularly microplastics, on marine ecosystems, the environment, and human well-being. Furthermore, the significance of union members and youth in mitigating plastic waste and advocating for eco-friendly materials is underscored, along with the suggested measures for conducting surveys and evaluating the extent of microplastic contamination throughout various regions.



## 7 AFFORDABLE AND CLEAN ENERGY



- Regulations on energy saving
- **411,419 KW**, average amount of electricity used per month
- **157.72 KW**, average amount of electricity used per capita
- Conference on Advanced Materials and Applications
- Strengthen cooperative relationships in research and efficient electricity consumption.
- Energy Security & Chemical Engineering Congress (SChE)



The Energy Progress Report 2022, published by the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA), the UN Statistics Division (UNSD), the World Bank, and WHO reveals that, the pandemic has slowed down electrification efforts, despite the resilience of renewable energy. The impact of the pandemic on household incomes has increased the cost of essential electricity services for the 90 million people in Asia and Africa who previously had access to them.

In Vietnam, the utilization of clean fuels has significantly increased from 34.5% in 2006 to 87.9% in 2020. However, certain ethnic minority groups, such as Hmong, Tay, Thai, Muong and Nung, face significant challenges (UNICEF, 2022). The balanced and harmonious growth of renewable energy sources with appropriate technology, policies, and fair prices in the highlands is a commitment to accomplishing the country's sustainable development goals.



**Regulations on energy saving in classrooms**

Although NTTU always prioritizes investing in facilities and equipment ranging from the most fundamental to the most advanced, it also recognizes the significance of energy-saving measures. The creation of a clean and comfortable school environment for students and faculty is of the utmost importance, but energy efficiency is also crucial, particularly in relation to the use of air conditioning in classrooms and offices. The NTTU has established guidelines for air conditioner operation in an effort to conserve energy and reduce the greenhouse effect.

It specifies the permitted use of air conditioning in the southern region of Vietnam based on specific meteorological conditions. During the months of March through June, air conditioning can be used from 8:00 a.m. to 11:15 a.m. and from 1:00 p.m. to 4:00 p.m. The permitted hours from July to November are 9:00 a.m. to 11:00 a.m. in the morning and 1:00 p.m. to 4:00 p.m. in the afternoon. During the months of December through February, air conditioner usage is dependent on the actual temperature and weather conditions, as the climate is typically milder during this time. By adhering to these regulations, the school intends to ensure the reasonable use of air conditioners in classrooms, thereby preventing the squandering of electricity caused by their use throughout the day.

A F F O R D A B L E  
C L E A N E N E R G Y



**Science Conference on Advanced Materials and Applications**

The purpose of the conference was to connect scientists with experts in the fields of advanced materials technology, application of science and technology, and a number of other related fields in order to discuss research cooperation, expertise, and the application and implementation of research results to create marketable products. The conference attracted scientists, specialists, and lecturers from universities, research institutions, and corporations.



**Strengthening collaborative relationships in research and electricity conservation**

NTTU and Tan Thuan Power Company have entered into a collaboration agreement to: Coordinate scientific research and technology transfers; Support the organization of domestic and international scientific conferences and seminars; Support the activities of the two units' students, professors, and staff in conducting scientific research together; Encourage the formation of collaborative research groups; Implement pilot projects to explore and implement IoT and automation in Tan Thuan Electricity's low-voltage grid system; Coordinate and support training work and programs to increase the quality of human resources at the bachelor's, engineer's, master's, and doctoral levels, as well as the creation of staff resources for both units; Coordinate and participate in teaching to increase human resource quality; Deploy model construction, practical lectures, and the use of virtual reality technologies, IoT applications, and automation in the power industry for both units.



**The energy security and chemical engineering congress, ESChE 2021**

Since 2019, NTTU has been honored to participate in and report on numerous conference papers at Pahang University Malaysia's worldwide scientific conference on energy security, "The Energy Security and Chemical Engineering Congress" (ESChE). The workshop provided a forum for energy and chemical engineering researchers to communicate their most recent findings and thoughts on energy, the environment, chemistry, and thermal engineering. ESChE 2021 was held online from November 3 to 5, 2021, with the topic "Sustainable Technological Solutions for a Better World" and over 100 speakers presenting a wide range of research content. At the conference, researchers from Nguyen Tat Thanh University's Institute of Environmental Technology and Sustainable Development presented 07 reports on topics such as catalytic processes, physicochemical properties of products, essential product distillation, and environmental engineering. The participation of the institute demonstrates the university's dedication to research, technological transfer, and innovation in the international scientific community.

A B L E A N D  
E N E R G Y

## 8 DECENT WORK AND ECONOMIC GROWTH



- **73.16%**, Percentage of employees with labor contracts over 24 months/Total employees with labor contracts
- **133%**, Current average basic hourly salary of the university/Minimum hourly salary by region
- Principles of democracy, openness, and transparency to ensure that all employees have equal opportunities to compete for positions in the organization, working in a safe, civilized office environment
- The same compensation for performing similar tasks given to all employees, regardless of gender
- Equal access to social benefits for female employees
- Recruitment regulations in accordance with contemporary anti-slavery policies.



Economic crises, geopolitical tensions, rising inflation, supply chain disruptions, the growing cost of living, public debt pressure from developing nations. This has made SDG 8 implementation difficult, and most goals have yet to be met. According to the United Nations (2023a), global real GDP per capita is anticipated to decelerate in 2023, endangering jobs, earnings, gender equality, and decent work for youngsters.

Vietnam's quick recovery following the epidemic sets it apart from other countries, with GDP growth of 8.02% in 2022 and a low unemployment rate (United Nations, 2023b). By upholding the principles of human rights and non-discrimination, Vietnam will ensure that all people are able to access employment opportunities and reap the benefits of work without facing bias or discrimination.



#### Policy on pay and benefits

Equal treatment in the workplace is an important component of doing good work, and one practical way to promote justice is to create a wage schedule based on job position, professional credentials, workload, labor efficiency, and employee discipline compliance. By taking these criteria into account, NTTU ensures that all employees are paid a fair wage for the function and value they offer. Furthermore, the university not only meets the government's minimum standards, but it also sets an average hourly basic compensation that is higher than the allowed amount in order to provide employees with a competitive and affordable salary.

Annually, the university implements a wage increment of one level within the established salary scale for every work post. There is a minimum difference of 6% between each payment level. This strategy not only indicates the school's dedication to equitable and fair treatment, but it also reflects its understanding of the necessity of attracting and maintaining qualified staff as well as creating work motivation.

Percentage of employees with labor contracts over 24 months/Total employees with labor contracts =

**73.16%**

Current average basic hourly salary of the university/Minimum hourly salary by region =

**133%**



#### Working-place justice

The National Assembly's 2019 Labor Code contains strict prohibitions against "discrimination in labor" and "sexual harassment in the workplace," highlighting the need for a secure environment. Workplaces that are both safe and respectful. All employees should be treated equally and should not face discrimination based on gender, color, or ethnicity. In addition to adhering to the legislation listed above, NTTU adheres to the ideals of democracy, openness, and transparency to ensure that all employees have equal opportunity to compete for positions within the organization while working in a safe and civilized office environment. At NTTU, all employees, regardless of gender, are compensated the same for completing equivalent jobs.

In addition to recruiting and employing full-time lecturers, the university welcomes visiting lecturers with high professional qualifications, such as professors, associate professors, or well-known experts in their disciplines. These visiting lecturers play an essential role in teaching, directing scientific research, and mentoring the school's young lecturers. In order to cultivate long-term partnerships, visiting faculty and external experts receive the same benefits as tenured faculty. Consequently, the school ensures that visiting lecturers and teaching experts receive the same compensation as full-time lecturers, demonstrating its commitment to equitable compensation and recognition of the value of worker expertise.

Female employees are granted equal rights to social benefits, highlighting the school's dedication to gender equality in hiring policies.

Article 6 of the NTTU recruitment regulations stipulates that candidates must be at least 18 years old, in good health, and fully competent in civil action in order to be considered for employment at the university. By establishing these criteria, the university guarantees that candidates are evaluated according to their accomplishments, skills, and suitability for the position. This approach is consistent with contemporary anti-slavery policies, which emphasize the significance of promoting individual rights and dignity in the workplace.



#### Chương II

#### ĐIỀU KIỆN, TIÊU CHUẨN TUYỂN DỤNG, HỒ SƠ DỰ TUYỂN

##### Điều 6. Điều kiện tuyển dụng

1. Đối với ứng viên là người Việt Nam, người Việt Nam định cư ở nước ngoài tham gia dự tuyển:

- Từ đủ 18 tuổi trở lên;
- Có nhân thân rõ ràng, phẩm chất, tư tưởng, đạo đức tốt;
- Có sức khỏe đáp ứng yêu cầu công việc;
- Có năng lực hành vi dân sự đầy đủ;
- Đáp ứng yêu cầu của vị trí việc làm, tiêu chuẩn và điều kiện làm việc của từng vị trí việc làm do Hội đồng trường ban hành;
- Có đầy đủ hồ sơ dự tuyển theo quy định tại Điều 8 quy định này.

2. Đối với ứng viên là người nước ngoài tham gia dự tuyển:

Recruitment regulations

DECENT WORK AND  
ECONOMIC GROWTH

## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



- **4.7-hectare** NTTU Hi-Tech project
- **06** centers and institutes under the company
- **09** research groups and centers of excellence in strong fields
- The Vietnam-Korea Center for Research, Development, and Technology Transfer (VKTECH)
- Fair remuneration and recognition of the professional value of employees for visiting lecturers





According to the United Nations (2023a), during the industrialization period, the labor multiplier effect had a positive impact on society, with each manufacturing job creating 2.2 jobs in other industries. However, the global production growth slowed down in 2022 due to factors such as inflation, higher electricity prices, supply chain disruptions, and the economic recession triggered by the pandemic. Technological advancements play a crucial role in addressing global challenges like job creation and energy conservation. Vietnam has chosen the solutions of "seeing science, technology, and innovation as the decisive lever for success in implementing the goals" and "improving the quality of human resources" (United Nations, 2023b) in order to improve the investment environment and infrastructure in the country's industrialization and modernization processes.

At NTTU, the execution of advanced investment initiatives and the building of centers and institutes in the domains of science, technology, and innovation further augment the progress of pivotal economic regions and the positioning of countries in the high-tech industry.



**The NTTU high-tech investment project,** with a total area of 4.7 hectares in the high-tech park (the Saigon Hi-Tech Park), Thu Duc City, will address the needs of interaction and linkage among high-tech research disciplines and encourage interdisciplinary and transdisciplinary research. A high-tech development center, a high-tech training facility, and Millennium Park are among the high-tech investment projects in HCMC High-Tech Park.



This will be a meeting place for leading domestic and international experts in science and high technology to participate in research, decoding, perfecting, and transferring technology, commercializing technology products, and training to create human resources to serve the high-tech industry, improve production and business efficiency, and create motivation to promote the country's industrialization and modernization. Building N1 under the High Technology Development Center project, which is one of three essential strategic projects that NTTU will invest in for future development in the High-Tech Park, was formally completed and solemnly inaugurated in 2021.

In addition, the university has subsidiaries that serve the science and technology fields, including the NTT Institute of High Technology Engineering, the Institute of Technology Application and Sustainable Development, the Institute of Advanced Agricultural Biology Research and Development, the Social Needs Training Centers, the Center for Innovation and Startup Incubation, and the Medical Equipment Research and Technical Consulting Center.

- **NTT High-Tech Institute**, established in 2011, operates in the areas of information technology, biotechnology, materials technology, automation technology, medicine, and pharmacy.
- **Institute of Applied Technology and Sustainable Development**, established in 2011, operates in the areas of environmental technology, energy technology, materials technology, the chemistry of natural compounds, automation technology, chemistry, and artificial intelligence.
- **Research and Development Institute of Advanced Agribiology**, established in 2012, operates in the areas of biology, biotechnology, food technology, and agriculture.
- **NTT Society On-Demand Training Center** was established in 2011, with the function of recruiting students, coordinating training, fostering, and organizing long-term and short-term classes to meet the needs of individuals, agencies, and organizations. business and society.
- **NTTU Innovation and Incubation Center** was established in 2019, with training activities and organizing events to support innovative startup activities; incubate, develop, and accelerate innovative start-up projects; domestic and foreign cooperation in implementing startup services; innovation; intellectual property exploitation; business creation; and events supporting activities in the startup ecosystem.
- **Medical Equipment Research and Technical Consulting Center** was established in 2011, advising and organizing the implementation of plans and inspection, calibration, testing, and assessment of medical equipment conformity, measuring instruments, measurement standards, in vitro diagnostic biological products, biological products used in the medical field, products related to human health, environmental protection equipment and products, and quality system management.

INDUSTRY, INNOVATION AND  
INFRASTRUCTURE

In accordance with the quality objectives of the academic year and the university's strategic focus on the advancement of science and technology, the Department of Science and Technology will formulate plans and recommend budgetary enhancements to augment the levels of investment in scientific and technological efforts. These proposals will subsequently be presented to the Presidential Board for review, adjustment, and the subsequent augmentation of investment levels for each respective activity category. The university's strategy to increase its financial resources includes incorporating revenue from operations related to scientific research and technology transfer, which serves as an additional source of income.

The university has made substantial investments in the establishment of strong research groups and Research Centers of Excellence in the fields of economics and pharmaceutical management, evidence-based medicine, artificial intelligence in medicine, health services and systems, behavioral medicine, biochemistry and natural products, functional polymers and nanoengineering, automation and precision mechanical engineering, green energy, and environmental nanomaterials. The Vietnam-Korea Center for Research, Development, and Technology Transfer (VKTECH) and Block N1—the NTTU High Technology Development Center—will gradually become more operational and serve as a hub for staff, teachers, banks, experts, and scientists engaged in scientific research and technology transfer, thereby contributing to the development of Ho Chi Minh City, the Southern region, and the Central Highlands' key economies.

No.	Categories	2021	2022
1.	Total revenue	899,055.92	1,141,801.56
2.	Total scientific research budget	59,177.70	57,079.84
3.	Percentage	6.58	5.00

About **500** international journal publications belong to the ISI/SCOPUS system.

**219** scientific topics (01 state-level topic, 15 ministry-level topics, and 203 university-level topics)

**30** published books (26 textbooks, 4 reference books)

**05** patterns were registered, and their applications were accepted by the Intellectual Property Office of Vietnam.

**01** first prize for the project "Research and application of microorganisms to treat and decompose organic dyes in textile wastewater (Science and Technology Award for students at the Ministry level)

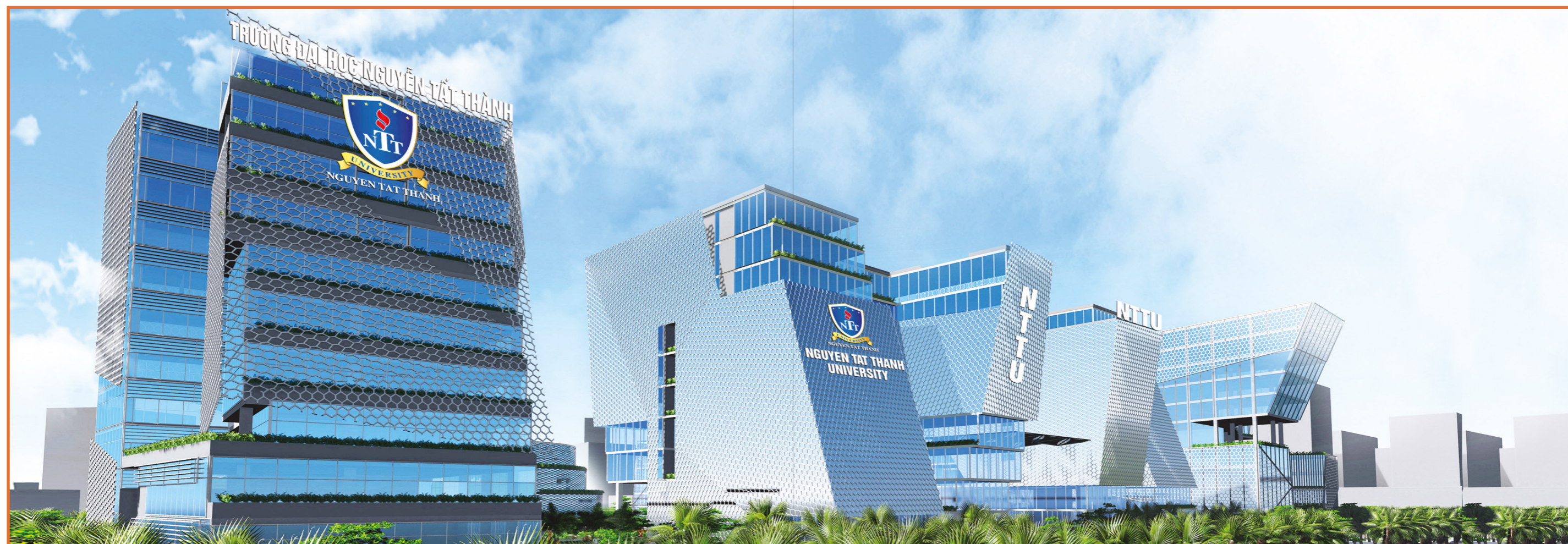
**115** projects won student scientific research awards at the university level.

**04** projects won the Euréka 2021 Scientific Research Student Award.

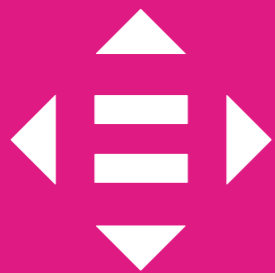
**01** champion prize and 01 consolation prize in the 2021 Post-harvest Processing Technology competition for young researchers

The award for organizations that make positive contributions to innovative start-up activities (I-Star 2021)

The title of a university that actively contributes to the startup ecosystem within the framework of the National Startup Program



## 10 REDUCED INEQUALITIES



- **Scholarship policy:** "Support to School", "Female Students,", "Talents", "Raising the Valedictorian"
- Health Insurance Policy for Students
- Support policies for ethnic minority students in difficult circumstances
- **Services** to support people with disabilities:



The pandemic has exacerbated income inequality worldwide, undoing some of the progress achieved over the past two decades. The slow recovery in emerging markets and developing economies is predicted to widen inequality among nations. Additionally, the United Nations estimates that in 2023, one in every 251 individuals will be a refugee, further highlighting the challenges faced by vulnerable populations.

Political disagreements are also a contributing factor to one of the current crises. Students from disadvantaged backgrounds (such as those from low-income backgrounds, ethnic minorities, persons with disabilities, etc.) who are otherwise qualified but are unable to attend college are prime examples of this. To achieve long-term social progress, where employment rates and social services are vastly improved in all respects, it is crucial to close the gap and reduce inequality.

### SCHOLARSHIP POLICIES

	✓ Scholarship: <b>3.000.000 VND</b>	- For all students admitted
	✓ Scholarship: <b>4.000.000 VND</b>	- High school graduation exam score: <b>above 24 points</b> - High school transcript score: <b>over 24 points</b>
	✓ Scholarship: <b>5.000.000 VND</b>	- For new students majoring in <b>Music, Piano, Biomedical Engineering, Medical Physics, and Biotechnology</b>
	<b>100% discount on first-year tuition</b>	University entrance valedictorian with a score above 24/30
	<b>50% discount on first-year tuition</b>	- Students winning high prizes in provincial and national excellent student competitions and national art competitions - Students admitted to the <b>Vietnamese Language and Vietnamese Culture major</b>
	<b>20% discount on first-year tuition</b>	For female students studying <b>Industrial Systems Engineering, Electrical and Electronics Engineering Technology, Mechatronics Engineering Technology, Construction Engineering, Interior Design, and Architecture</b>
	<p>- 20 scholarships covering <b>100%</b> of full course tuition worth 3 billion VND for students who have experienced the loss of their parents due to the pandemic</p> <p>- Scholarships of <b>7,000,000 VND</b>/tuition to 2,000 new students (full-time) enrolled before August 5, 2022</p> <p>- Foreign language course voucher worth <b>5,000,000 VND</b> at the Foreign Language Center at Nguyen Tat Thanh University and NTTU gift combo worth <b>1,000,000 VND</b> for new students enrolled before August 31, 2022</p>	

In order to facilitate increased access to higher education for marginalized populations, NTTU has implemented supportive measures and established numerous scholarships. These initiatives aim to alleviate the challenges faced by learners while also ensuring equal opportunities for individuals regardless of gender or socio-economic background.

#### 20% discount on full course tuition if:

- The students have experienced the loss of both parents or have independently supported themselves financially in order to afford their tuition fees and assume the primary responsibility for supporting their families, whereby both parents are unable to work.
- The students are genetic descendants of illustrious members of the People's Armed Forces, such as labor heroes, martyrs, war invalids, resistance activists exposed to dangerous substances, or legally adopted children with state-recognized documentation.
- The students are ethnic minorities in areas with extremely difficult socio-economic conditions, according to regulations.
- Students who have a sibling or spouse concurrently enrolled at the same educational institution may be eligible for a discount. This discount applies to a student who is enrolling in the subsequent course. In the event that both students are studying the same course, only one out of the two students will receive the discount.
- Students in their second year and beyond (excluding the first year) who come from economically disadvantaged households or households near the poverty line, as defined by state rules, exhibit a cumulative grade point average of 2.5 out of 4.0 and a practice score of 2.5 out of 4.0, indicating a satisfactory or higher level of performance.

**Free health insurance policy** for students from ethnic minorities or target groups (poor households, children of war invalids and martyrs, etc.) following regulations.

**Support policies for ethnic minority students** in difficult circumstances, such as scholarships, tuition reductions for students (the Vu A Dinh scholarship reduces 100% tuition fees), policies for ethnic minorities in economic zones (socially disadvantaged people will receive a 10% discount on tuition per semester), etc.

**Psychological counseling room** with the motto "listen, empathize, share, respect, and keep information confidential", helping staff, lecturers, and students receive psychological counseling support.

**Support services for people with disabilities:** through understanding the difficulties of people with disabilities when participating in learning, the school has plans to support people with disabilities, such as separate paths for people with disabilities to move, a private bathroom, priority parking for disabled people, etc.



R E D U C E D I N E Q U A L I T I E S

## 11 SUSTAINABLE CITIES AND COMMUNITIES



- Southern Opera Art, Bamboo Flute Club
- Promote the use of sustainable means of transport
- Instruct students to use the BUSMAP
- **2,000** affordable accommodation addresses



The convergence of climate change and the significant consequences resulting from the pandemic has engendered a multitude of dangers in the realm of urban planning and the construction of habitable environments for diverse populations. These risks have profound implications for fostering social progress and bolstering the economic vitality of a nation. The United Nations report (2023a) revealed numerous urban areas are currently grappling with deficiencies in their public health systems, inadequate funding for essential services, the absence of comprehensive public transportation networks, insufficiency of housing or deteriorating infrastructure, and heightened levels of air pollution emissions.

To enhance the quality of life and safeguard the rights of individuals, it is crucial to prioritize endeavors aimed at augmenting secure and cost-effective urban development planning, safeguarding cultural heritage, establishing accessible public transportation systems, formulating policies to enhance public health, managing sources of polluting waste and emissions, particularly in relation to natural disaster risks, and adapting to climate change within the framework of urbanization and sustainable development.

**Promoting eco-friendly travel alternatives**

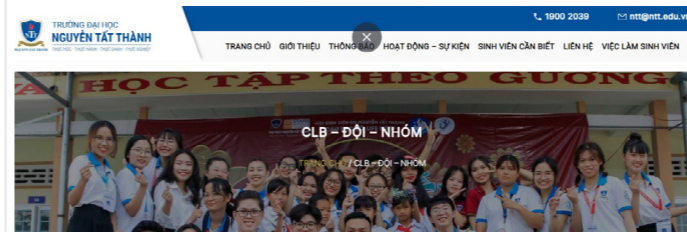
The increasing popularity of public transportation has brought numerous benefits and conveniences to urban residents. The boarding points not only contribute to reducing traffic congestion and saving travel time, but they also eliminate the need for individuals to locate parking spaces. In addition, public transportation saves money and fuel, which contributes considerably to environmental protection by reducing air pollution and mitigating negative effects on the environment and human health.

At NTTU, numerous initiatives are designed to encourage students to use environmentally friendly modes of transportation, such as bicycles, buses, and strolling. Through extracurricular educational activities, seminars, and constructing bus stations to serve students and residents, the school has raised students' awareness of the benefits of using public transportation. In addition to reducing traffic congestion and environmental contamination, this initiative promotes culture, a healthy lifestyle, and environmental protection.

**Preserving and promoting the value of artistic heritage**

Bringing national culture closer to the younger generation and creating a space to pass on and promote the nation's traditional values are of utmost importance in the context of profound integration. At NTTU, annual art programs are organized to introduce students to a variety of art forms.

In 2022, the university presented a program of ethnic music titled "Southern Opera Art". Through special performances meticulously choreographed by the Drama Theater of the City, NTTU students acquired the knowledge and unique beauty of the art form of Hat Boi in the program's exciting environment. In addition to interacting and demonstrating their artistic abilities on stage, students can engage in activities such as equestrianism, canoeing, and laughter mime with speaker Meritorious Artist Linh Hien. Students gained a broader understanding of national music, igniting a passion for preserving and perpetuating Vietnam's traditional cultural values.



**CLB Đội – Nhóm**

Mong muốn tạo môi trường học tập và vui chơi tốt nhất cho người học, Trường ĐH Nguyễn Tất Thành không ngừng phát triển mô hình câu lạc bộ (CLB) sinh viên. Mỗi CLB mang một màu sắc khác nhau để các bạn thể hiện niềm yêu thích, đam mê và góp công sức vào các chương trình. Vì vậy công đồng, công như giao lưu giúp đỡ lẫn nhau như cùng nhau học tập kinh nghiệm từ các thể hệ anh chị đi

**DANH MỤC**

- Tân sinh viên
- Tin tức sinh viên
- Góc cảnh giác và tuyên truyền SV

The Student Association also founded the Sao Truc (Bamboo Flute) Club, in addition to organizing such events. Through weekly activities, the society exposes students to this traditional Vietnamese musical instrument and teaches them about its cultural significance. The club serves as a useful "stop" for students to connect, exchange knowledge, and cultivate a sense of appreciation for the nation's cultural heritage.





**Instructing students on the Bus map**

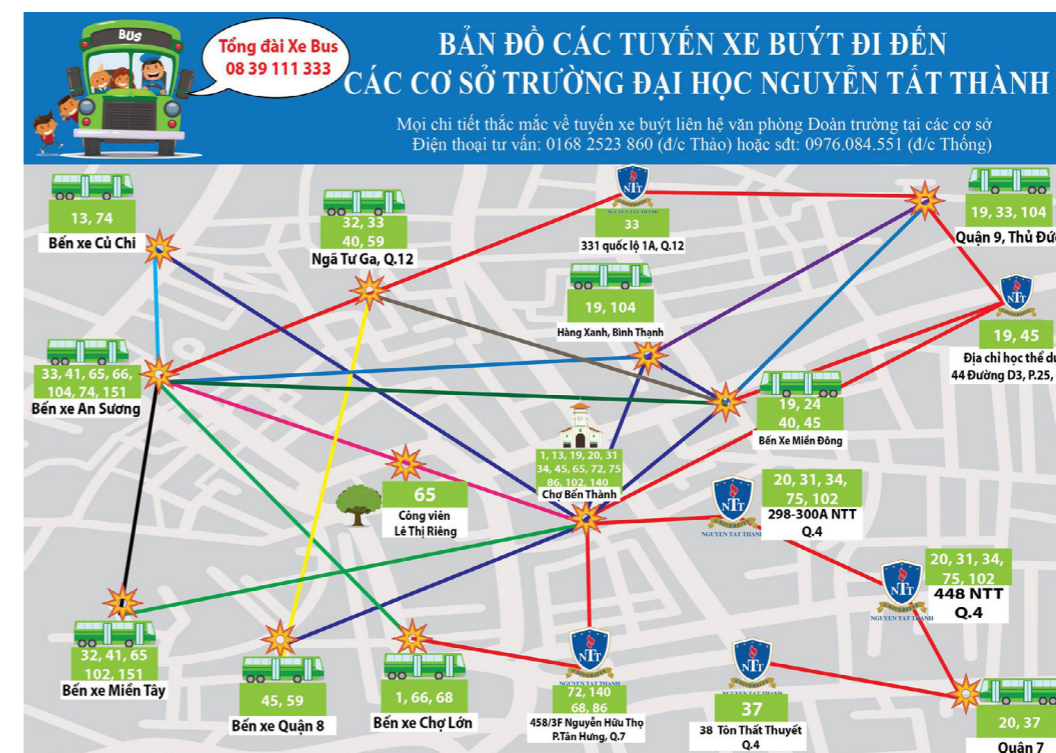
The activity aims to help NTTU students comprehend and effectively use the Busmap application when traveling by bus. The guidance staff instructed students on how to obtain and utilize the application, as well as how to access bus route information, schedules, and stops.

The "Map of Bus Routes" activity provides students with a detailed map of local bus routes. This map includes stops, routes, and times for each halt along each route. Students can use the map to quickly locate and select the appropriate bus route for their travel requirements.



**Opening a new bus station, serving students and residents**

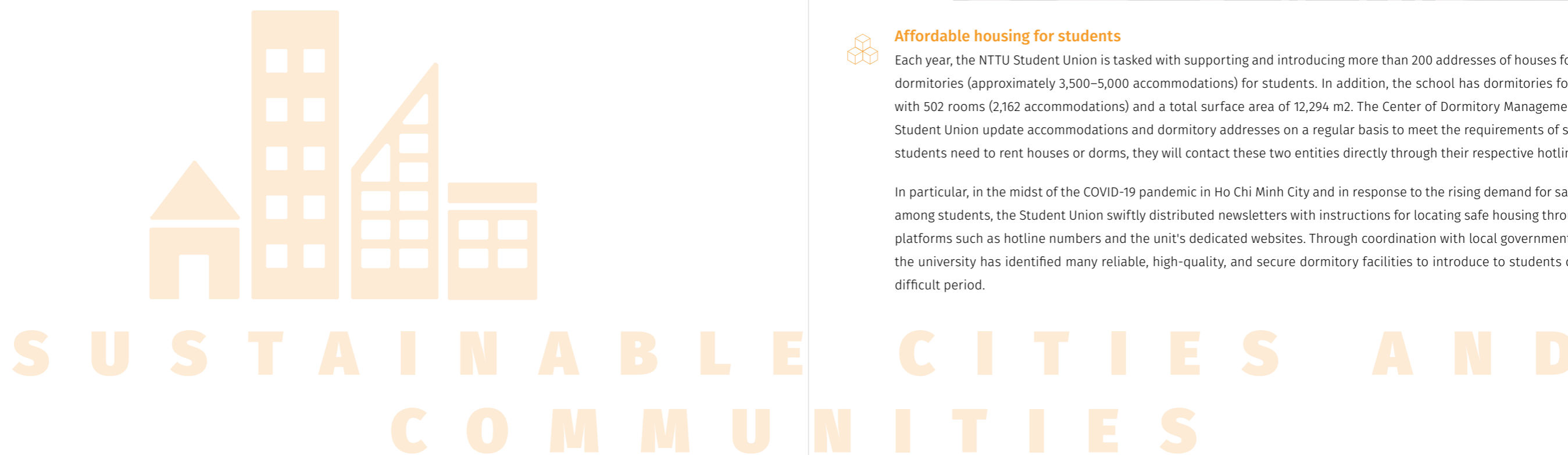
NTTU's "Opening a New Bus Station, Serving Students and Residents" activity was a crucial step in promoting sustainable mobility and travel. Numerous new transit stops have been constructed and positioned in front of the facility's gates. Each station is outfitted with a canopy, benches, and bus LED display boards, making it easy for university students and locals to board and alight from the bus. Consequently, students no longer have to spend time traveling to a very distant station, as they did previously. This has considerably increased the number of students using public transportation compared to previous years.



**Affordable housing for students**

Each year, the NTTU Student Union is tasked with supporting and introducing more than 200 addresses of houses for rent and dormitories (approximately 3,500–5,000 accommodations) for students. In addition, the school has dormitories for students with 502 rooms (2,162 accommodations) and a total surface area of 12,294 m2. The Center of Dormitory Management and the Student Union update accommodations and dormitory addresses on a regular basis to meet the requirements of students. If students need to rent houses or dorms, they will contact these two entities directly through their respective hotlines.

In particular, in the midst of the COVID-19 pandemic in Ho Chi Minh City and in response to the rising demand for safe housing among students, the Student Union swiftly distributed newsletters with instructions for locating safe housing through online platforms such as hotline numbers and the unit's dedicated websites. Through coordination with local government agencies, the university has identified many reliable, high-quality, and secure dormitory facilities to introduce to students during this difficult period.



## 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



- **Periodic maintenance** of wastewater treatment systems
- **Wastewater treatment** station of 150 m<sup>3</sup>/day and night
- Rainwater pipe construction project at Millennium Park
- Green Life





One of the mandatory trends for economic growth is responsible consumption and production, along with minimizing negative impacts, a commitment to preserving the environment and biodiversity, and community responsibility. In many ways, resource-intensive production processes that do not generate commensurate returns have impacted developing nations. Sustainable production and consumption will maximize socioeconomic benefits due to strategies that conserve resources and promote responsible production methods.

Each year, Vietnam is responsible for discharging an estimated 3.1 million tons of plastic garbage onto land, of which at least 10% is released into the ocean (World Bank, 2022). The National Action Program on Sustainable Production and Consumption in the Period 2021–2030 in Vietnam has clarified definitions, policies, and regulations associated with the sustainable economic development model. Alongside this are activities that make efficient use of resources and energy, lengthen product life cycles, regenerate natural ecosystems, alter green consumer behavior, and transition to environmentally friendly products. These actions considerably contribute to the process of promoting the circular economy and sustainable development of the nation.



#### Policy for hazardous waste treatment

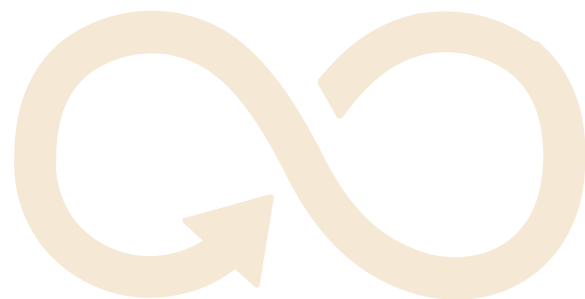
Policy for hazardous waste treatment is essential to implement waste classification and treatment processes. At NTTU, clear guidelines are in place to ensure that hazardous waste is properly identified, classified, and disposed of in accordance with local government regulations and international best practices. Particularly in 2022, the Presidential Board had specific policies and guidelines to enhance and reduce the impact of hazardous waste.

First, increasing the **periodic maintenance of the wastewater treatment system**. At NTTU's teaching facilities, regular inspection, repair, and upgrading of wastewater treatment systems are carried out through economic contracts with reputable outside partners. This coordination is meticulously monitored to ensure that the system operates optimally and prevents any danger of hazardous waste contamination.

Second, the **wastewater treatment plant** with a capacity of 150 m<sup>3</sup>/day and night, under the High Technology Development Center project, is an option expected to increase efficiency in hazardous waste management and treatment. This project complies with strict environmental standards by using advanced technologies to safely destroy toxic substances.

In addition, the **rainwater pipe construction project** in Millennium Park's D6 street has directly contributed to the reduction of the danger of hazardous waste overflow. By directing rainwater to designated treatment facilities, the potential for environmental contamination and the discharge of hazardous substances can be drastically reduced.

Coordination with stakeholders, such as government agencies, environmental agencies, and local communities, is essential for the effective implementation of a hazardous waste policy. Consistently monitoring, evaluating, and enforcing policy provisions is performed to ensure continued compliance and efficacy.



#### Policy to limit the use of plastic utensils

Plastic waste contamination of the environment poses a serious threat to human existence. The "Change Habits, Protect the Environment" campaign, with the slogan "Change some everyday items to help reduce the burden of waste on our planet," has had a significant impact and provided a fresh breeze for the NTTU's students.

#### Program "NTTU says no to plastic products and single-use plastic bags"

The program includes a series of hands-on activities and events designed to alter students' use of plastic products, raise social awareness of environmental protection, and demonstrate students' responsibilities. Through the use of alternative products and the replacement of single-use plastic bags and containers, the spirit of youth and NTTU students is encouraged to collaborate with the government, the people of the city, and the localities to accomplish the task of promoting environmental protection awareness.



One of the contestants' initiatives



### Program "GREEN LIFE - Exchange plastic waste for gifts in 2022"

It is a recurring environmental activity organized by NTTU with the aim of fostering environmental consciousness among students and advocating for measures that safeguard the environment and promote sustainable development.



The initiative of exchanging plastic waste for gifts serves as a means to enhance students' environmental consciousness and civic duty, not solely through verbal communication or educational campaigns but also through tangible actions exhibited by individuals. Furthermore, this significant endeavor also enhances interpersonal relationships by fostering shared learning experiences and engaging in collective gift-giving activities. These activities aim to enhance community awareness regarding the management of plastic waste and nylon bags, gradually decrease the utilization of plastic items in daily routines while simultaneously encouraging the adoption of environmentally friendly alternatives, foster a profound shift in consciousness, cultivate an environmentally sustainable lifestyle among students, and further advance volunteer efforts and campaigns focused on the collection and proper treatment of solid waste and plastic materials.



### Workshop on the waste classification

With a population of over 93 million people, Vietnam generates an enormous quantity of waste each year; on average, thousands of tons of household waste are discarded each day. Without sorting or recycling, landfill technology is currently the primary form of waste treatment. This significantly contaminates the land, water, and air environments. However, these conditions continue to worsen and show no indication of abating. This poses a grave threat to the natural environment and human health.

The workshop on waste classification was recently organized with the purpose of disseminating information and raising awareness for students about the current state of environmental pollution in Vietnam, giving instructions on the process of classifying and treating waste at home and the benefits of classifying and treating waste at home, and raising responsibility for each student in protecting the environment in general and maintaining a clean living environment.



# 13 CLIMATE ACTION



- **Workshop on climate change** in the Mekong Delta
- **Green Sunday**
- Propagating environmental protection
- Responding to World Environment Day



Climate change has a global impact, manifesting in various forms such as extreme weather events, escalating sea levels, and substantial emissions of greenhouse gases, affecting nations worldwide. The issue at hand represents an imminent and pervasive worldwide menace, posing a critical challenge to the sustenance of all forms of life, particularly those who are economically disadvantaged. The adoption of the Paris Agreement (COP21) in 2016 was a response to the urgent need to address the issue of climate change. It is imperative that prompt and decisive measures are implemented in order to effectively mitigate its impacts.

The World Bank (2022) reports that a considerable population of 100 million individuals in Vietnam is categorized as very susceptible to the adverse effects of climate change, particularly in coastal regions and those with low elevation. The Mekong Delta, which accommodates a population of 18 million individuals, is confronted with the significant consequences of climate change. These consequences encompass the potential occurrence of floods in more than 70% of certain provinces and cities within 80 years. The projected economic losses resulting from climate change are estimated to potentially reach a substantial amount of USD 523 billion by the year 2050. Vietnam exhibits the highest rate of emissions globally, with an increase from 0.79 tons of carbon dioxide (CO<sub>2</sub>) in 2000 to 3.81 tons of CO<sub>2</sub> in 2018.

Adaptation to climate change is essential for preventing economic losses and safeguarding vulnerable populations. As a research and higher education institution, NTTU is deeply conscious of its responsibility to promote multilateral cooperation for a greener, more sustainable future.

**ĐƠN VỊ TỔ CHỨC** **ĐƠN VỊ PHỐI HỢP**

**HỘI THẢO**

**PHÁT TRIỂN KINH TẾ-XÃ HỘI TRONG BỐI CẢNH BIẾN ĐỔI KHÍ HẬU Ở ĐỒNG BẰNG SÔNG CỬU LONG**

Thời gian: 2pm (GMT+7), ngày 26/10/2022

“Đăng ký tại đây:”

Điểm cầu ở Việt Nam:  
Hội trường 801-CS300A- ĐH Nguyễn Tất Thành  
Điểm cầu Úc: SVAU + NIC-AU



### Workshop on socio-economic development in the context of climate change in the Mekong Delta

Nguyen Tat Thanh University organized the conference in cooperation with the Institute of Circular Economy Development (ICED) of the National University of Ho Chi Minh City, the Ho Chi Minh City National University Ho Chi Minh City Youth Union, the Vietnamese Student Association in Australia, and with the support of the Global Youth Scholars Vietnam and the Vietnam-Australia Innovation Network. The conference targeted the 5th Global Vietnamese Young Intellectuals Forum in 2022 with the theme "Young intellectuals promote the application of science and technology and innovation, contributing to the recovery of the country's economic development" after the pandemic".

The Mekong Delta region is subject to significant environmental consequences resulting from climate change, including but not limited to floods, droughts, saltwater intrusion caused by the elevation of sea levels, erosion of river banks, increased water levels due to increasing sea levels, storms, and other threats associated with climatic patterns. Consequently, the examination and identification of climate change risks will enable cities to engage in proactive planning and respond effectively, mitigating potential harm and facilitating adaptation to climate change. The workshop sought to explore many viewpoints regarding the enhancement of socio-economic development potential in the Mekong Delta while concurrently addressing strategies to mitigate the impacts of climate change.

**ĐƠN VỊ TỔ CHỨC** **ĐƠN VỊ PHỐI HỢP**

**HỘI THẢO**

**PHÁT TRIỂN KINH TẾ-XÃ HỘI TRONG BỐI CẢNH BIẾN ĐỔI KHÍ HẬU Ở ĐỒNG BẰNG SÔNG CỬU LONG**

Phân tích kinh tế các giải pháp thích ứng với khí hậu ở công trình cống Cái Lớn - Cái Bé, tỉnh Kiên Giang

**TIẾN SỸ**  
**NGUYỄN DIỆU HẰNG**  
ĐƠN VỊ CÔNG TÁC  
Trường Đại học Kinh tế Quốc dân

**ĐƠN VỊ TỔ CHỨC** **ĐƠN VỊ PHỐI HỢP**

**HỘI THẢO**

**PHÁT TRIỂN KINH TẾ-XÃ HỘI TRONG BỐI CẢNH BIẾN ĐỔI KHÍ HẬU Ở ĐỒNG BẰNG SÔNG CỬU LONG**

Khả năng đáp ứng sinh kế người dân và dịch vụ môi trường của hệ sinh thái rừng ngập mặn ở đồng bằng sông Cửu Long

**TIẾN SỸ**  
**NGUYỄN THÀNH NHO**  
ĐƠN VỊ CÔNG TÁC  
Trường Đại học Nguyễn Tất Thành

**ĐƠN VỊ TỔ CHỨC** **ĐƠN VỊ PHỐI HỢP**

**HỘI THẢO**

**PHÁT TRIỂN KINH TẾ-XÃ HỘI TRONG BỐI CẢNH BIẾN ĐỔI KHÍ HẬU Ở ĐỒNG BẰNG SÔNG CỬU LONG**

Đánh giá tác động của biến đổi khí hậu đến nền tảng kinh tế - xã hội của đồng bằng sông Cửu Long và dự báo những xu hướng thay đổi trong tương lai

**THẠC SỸ**  
**TRẦN HƯƠNG GIANG**  
ĐƠN VỊ CÔNG TÁC  
Công ty tư vấn quốc tế enCity

**ĐƠN VỊ TỔ CHỨC** **ĐƠN VỊ PHỐI HỢP**

**HỘI THẢO**

**PHÁT TRIỂN KINH TẾ-XÃ HỘI TRONG BỐI CẢNH BIẾN ĐỔI KHÍ HẬU Ở ĐỒNG BẰNG SÔNG CỬU LONG**

Kinh tế tuần hoàn tại Việt Nam: Một số cập nhật chính sách

**TIẾN SỸ**  
**NGUYỄN HOÀNG NAM**  
ĐƠN VỊ CÔNG TÁC  
Trường Đại học Kinh tế Quốc dân





### The Green Summer Campaign

300 enthusiastic blue-shirted volunteers came from nine volunteer squads at Nguyen Tat Thanh University. These volunteers were organized into nine distinct squads, each contributing to the overall volunteer effort. Every volunteer represented the spirit of volunteerism among the youth of Nguyen Tat Thanh University. They actively promoted positive actions, fostered a culture of competition, and demonstrated a strong commitment to executing valuable projects and tasks. The ultimate goal of their endeavors was not only to make a positive impact but also to gain personal growth and a profound understanding of environmental issues through experiential learning, skill development, active participation, and personal contributions. This situation can also be seen as a chance for individuals to articulate their highest objectives and unwavering commitment to the younger generation.



### Promoting environmental protection measures for the future's sustainability

- The augmentation of environmental consciousness
- The mitigation of air pollution necessitates the promotion of clean and renewable energy sources, while concurrently restricting the utilization of energy sources that contribute to emissions.
- Preserving and safeguarding biological variety
- The management of resources and waste management
- Promoting the adoption of renewable energy sources



### World Environment Day

The Faculty of Environmental and Food Engineering orchestrated a sequence of events within the faculty premises in observance of World Environment Day. These activities included a poster design competition centered around the theme "Beat Plastic Pollution", as well as an initiative focused on repurposing plastic waste into eco-friendly plant pots. The sequence of events garnered the interest of both students and alumni from the faculty and the school, who collaborated to safeguard the environment. At present, within the premises of Nguyen Tat Thanh University, a number of plant containers fashioned from repurposed plastic bottles can be observed, showcasing the ingenuity and resourcefulness of the university's students.



### Green Sunday

In response to the activity day titled "Volunteers Remembering the Source When Drinking Water" and the program "Lighting Candles to Pay Tribute to Heroes and Martyrs" associated with the 150th Green Sunday (July 23, 2023), volunteers from NTTU actively participated in a project aimed at cleaning canal routes and removing advertising boards from all 10 canals and roads at the fronts. This activity held significant value as it served the purpose of expanding urban green spaces while concurrently seeking to enhance awareness among union members, youth, and the general public regarding the significance of forests and associated conservation concerns. These concerns encompass forests, water resources, the environment, responses to climate change, and community involvement.





- **Research** biochar to absorb norfloxacin and tetracycline in water
- **Discussion** platform for preserving marine ecosystems and biodiversity



The health of the Earth's seas, which encompass the largest ecosystem on the planet, is currently in significant peril due to a multitude of trends that are causing the depletion of their resources. According to the United Nations (2023a), there is evidence indicating that marine life and ecosystems are being threatened by many factors, such as heightened acidification, eutrophication, diminished fish populations, and the presence of plastic trash causing pollution. The consequences of these issues transcend ecological considerations, impacting the sustenance, financial stability, and overall welfare of many individuals who depend on the ocean as a source of sustenance, economic resources, and various other necessities. There is an increasing imperative to promptly address these challenges and uphold the delicate equilibrium of marine ecosystems.

NTTU, particularly within its training programs focused on food and environmental engineering, endeavors to foster positive transformation by integrating education, research, policy engagement, community outreach, and innovation. Through these concerted efforts, the university aims to contribute to the preservation of oceanic sustainability and equilibrium, thereby safeguarding the interests of future generations.



#### Project "Adsorption of norfloxacin and tetracycline from an aqueous solution on biochar derived from spent coffee grounds"

According to the WHO, there is an imminent risk of a larger-scale pandemic that poses a significant hazard to public health. The issue at hand relates to antibiotic resistance. Antibiotics serve as the primary pharmacological agents employed for the purpose of preventing and treating infections in human beings, animals, and plants. Currently, we find ourselves in a period characterised by a significant global mortality rate resulting from incurable diseases. This unfortunate circumstance can be attributed to the proliferation and dispersion of bacteria that exhibit resistance to antibiotics. The Saigon River serves as the primary waterway traversing Ho Chi Minh City and functions as the principal water source for the city's water treatment facility.

Nonetheless, the present state of water pollution, particularly with antibiotic resistance components, remains inadequately comprehended, resulting in challenges and a dearth of proactive measures in formulating strategies aimed at mitigating pollution and curtailing the dissemination of antibiotic resistance within the environment.

The contamination of several chemicals with antibacterial properties resulting from diverse human activities is identified as a contributing factor to the emergence of antibiotic resistance in the environment. Research was done by academics and students at the Faculty of Environmental and Food Engineering with the aim of ascertaining the levels of antibiotic bacteria and antibiotic genes present in the surrounding environment. Subsequently, an assessment was conducted to determine the degree of pollution in the river, identify the contributing elements to this pollution, and examine the extent of antibiotic pollution in the surrounding environment.

Norfloxacin and tetracycline with high content are often employed as antibiotics. The search for an appropriate treatment technique for water contaminated with antibiotics is a significant challenge. The utilization of waste biomass for adsorption technology has attracted significant interest in recent years. Between 2019 and 2022, the green materials research team at NTTU conducted a series of experimental investigations aimed at developing biochar for absorbing norfloxacin and tetracycline in water. The team achieved notable outcomes, with the biochar exhibiting absorption capacities of 70 mg/g for norfloxacin and 39 mg/g for both norfloxacin and tetracycline in water. These results surpassed those observed in domestic charcoal derived from redwood, rice straw, corn, bamboo, and sewage sludge. Hence, the utilization of biochar derived from coffee grounds is regarded as a promising adsorbent that offers both economic viability and environmental sustainability. In the foreseeable future, the critical task assigned to educators and students specializing in environmental management will entail conducting studies and executing practical measures on a significant scale to promptly address the prevailing water pollution issues in Vietnam.





### Creating a forum for interdisciplinary dialogue among scholars across generations, focusing on the importance of conserving marine ecosystems and promoting biodiversity

Organizing seminars and workshops to discuss ecosystem conservation and biodiversity with intellectuals, including experienced researchers, young research groups, and students, is of great value to NTTU in contributing to the community's urgent environmental challenges. These activities provide a forum for sharing knowledge, exchanging ideas, and promoting innovative solutions to protect and preserve ecosystems and biodiversity through open and in-depth discussion.

The international conference titled **"Enhancing Wetland Management and Sustainable Development"** aims to address issues related to the effective management of wetlands and the promotion of sustainable development. The program is a component of a regional collaborative initiative between Vietnam and over ten nations in Asia, Australia, and New Zealand (RCA), all of which possess abundant and varied wetland ecosystems. This has been scheduled to occur from 2020 to 2024 and is under the chairmanship and financial support of the International Atomic Energy Agency (IAEA). NTTU serves as the primary facilitator of the project.

The scientific conference titled **"Application of Information Technology: Creativity to Address Climate Change"** took place in Kien Giang, a region renowned for its abundant and diversified marine resources within the Mekong Delta area. Kien Giang possesses significant potential for the growth of its maritime economy, owing to its expansive coastline spanning more than 200 kilometers and a substantial sea area of over 63,000 square kilometers. During the conference, a significant number of participants engaged in discussions, openly exchanged ideas, and shared their experiences about the implementation of information technology (IT), biotechnology, agricultural commodity processing technology, and environmental technology in various international contexts. Research and implementation of information technology have yielded notable results in addressing climate change and fostering the development of local agricultural export goods through innovative approaches. The conference served as a platform for agricultural production enterprises, managers, and farmers to engage in knowledge sharing regarding technical advancements and applications in the production of export-oriented products and goods towards promoting ecological preservation and safeguarding the marine environment, thereby facilitating the development of clean, efficient, and sustainable agricultural practices.



These discussions have the dual purpose of increasing awareness of the significance of conserving the natural environment and emphasizing the interrelationship between ecosystems and human well-being. By fostering engagement and collaboration between seasoned intellectuals and the younger generation, who possess novel views and innovative thinking, this endeavor has the potential to stimulate novel modes of thought through the introduction of alternative ideas and techniques in the realm of marine ecosystem conservation. Moreover, these debates can function as a catalyst for fostering collaboration, promoting links among emerging leaders in the realm of environmentalism.





## 15 LIFE ON LAND



- **Renovating** stone benches and propaganda pictures
- **Products** from lotus leaves
- Dispose of hazardous waste with soil
- Discharge guidelines and standards



Climate change, air pollution, and biodiversity loss are the three main crises that threaten the current state of land resources and the environment (United Nations, 2023a). To effectively address these crises, it is essential to adopt sustainable measures that minimize negative environmental impacts while promoting economic and social development. This includes the transition to renewable energy sources in order to reduce greenhouse gas emissions and address climate change. Moreover, preserving and protecting ecosystems is crucial for preserving biodiversity and preserving the delicate equilibrium of our planet's natural resources.

Higher education institutions play an essential role in addressing the aforementioned urgent global issues. NTTU has been promoting sustainable practices by incorporating sustainability into curricula, educating the community, and collaborating with governments and organizations. By raising awareness and promoting research, the school progressively contributes to creating a sustainable future for the country and the common cause.



**Action for ecosystems on land**

The preservation of our planet for future generations is an urgent matter of concern in contemporary society, necessitating the collaborative endeavors of individuals and communities to ensure environmental protection. The NTTU Student Union and the Faculty of Environmental and Food Engineering (ENFO) have a diverse range of innovative ideas that can collectively contribute to the achievement of this shared objective. One of the approaches employed by the NTTU Student Union is the refurbishment of stone benches situated on the university campus, coupled with the adornment of these seats through the application of propaganda paints.

The primary objective of this initiative is to foster a heightened sense of environmental consciousness. The engagement in **restoring stone benches and creating environmental protection propaganda paintings** has generated significant interest among students at NTTU, who have demonstrated their innovative ideas. The seats have undergone a process of repainting and embellishment, with various designs and statements pertaining to environmental consciousness. The intention behind this endeavor is to effectively communicate the imperative message of "Preserve the environment today for the life of tomorrow" to the entire student body of NTTU as well as the wider public.

Furthermore, the adoption of sustainable alternatives to plastic bags holds significant importance in the context of waste reduction and the mitigation of environmental contamination. Lotus leaf products exhibit considerable promise as a viable alternative due to their inherent biodegradability, renewability, and possession of water-repellent characteristics akin to those of plastic materials. The cafeteria at NTTU implemented the use of lotus leaf-based T-shaped takeout bags, which were exclusively designed by the ENFO. These bags were employed as an alternative to conventional plastic bags and were made available to all students and employees.



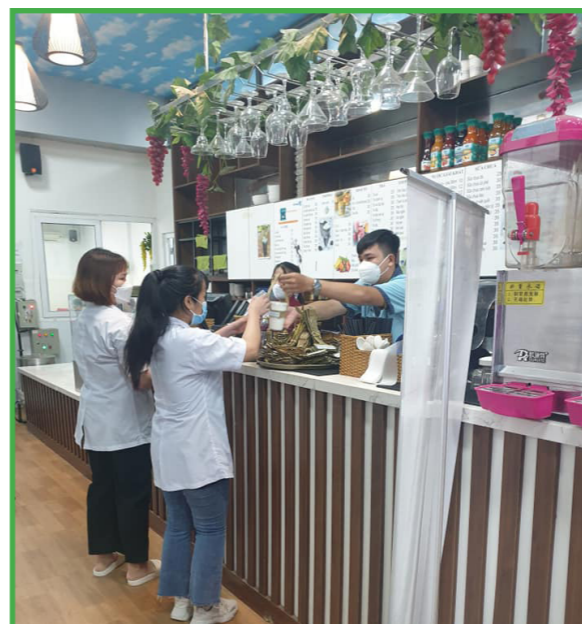
**Disposing of hazardous waste on soil**

The facility at Nguyen Tat Thanh University has been officially registered for the purpose of generating hazardous waste. This waste includes a comprehensive list of both hazardous waste and normal waste due to training activities related to drug and toxicity testing. NTTU has fulfilled the obligations outlined in Article 25 of Circular No. 12/2011/TT-BTNMT, issued on April 14, 2011 by the Ministry of Natural Resources and Environment. The university is accountable for implementing appropriate measures, promptly reporting incidents to the relevant authorities, and adhering strictly to pertinent guidelines.



**Manual on the Handling of Laboratory Waste**

The process of waste treatment is essential to effectively and properly eliminating hazardous waste, reducing the potential for adverse impacts on both human health and the environment as well as mitigating the likelihood of accidents or environmental incidents. By adhering to appropriate waste disposal techniques, observing safety protocols, and conducting regular system maintenance, the potential for leaks, explosions, or contamination resulting from hazardous waste disposal can be significantly reduced. Furthermore, the staff members who have received specialized training have comprehensive knowledge regarding the protocols, precautionary measures, and legal frameworks pertaining to the proper management and disposal of waste materials. This practice aids in ensuring the appropriate execution of the discharge procedure while mitigating potential hazards to both employees and the surrounding environment.



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## 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



- **NTTU Student Association**, useful playground, and community activities
- **Youth Union** and participation activities of relevant parties
- **Ensuring fairness** and supporting academic freedom



The promotion of social peace and justice, as well as the establishment of functional and participatory institutions across many levels, is of utmost importance in fostering a society characterized by harmony and fairness. In a globally interconnected society that features the coexistence of many voices and ideas, it is crucial to establish an atmosphere that fosters principles of equity, inclusivity, and openness. In order to address this matter, it is imperative for universities to develop modest, decentralized establishments that not only adapt to the educational requirements of learners and communities but also actively include them in the process of decision-making.

NTTU has made efforts to create a space for open dialogue in which every individual is regarded with respect, has equal rights and opportunities, and is able to voice their concerns and ask management at all levels to assume responsibility. By promoting transparency, accountability, and inclusiveness within the organization, NTTU seeks to build trust and confidence among students, faculty, and staff, as well as within the surrounding community.

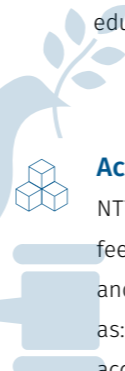


**Vietnamese Student Association of Nguyen Tat Thanh University**

The Vietnamese Student Association of Nguyen Tat Thanh University was established on February 26, 2010, according to decision No. 15 QD/TWHSV, with the name Nguyen Tat Thanh College Vietnamese Student Association and was renamed the Student Association. Vietnamese members of Nguyen Tat Thanh University, according to Decision No. 32 QD/TWHSV dated June 30, 2011.

The NTTU Student Association, functioning as a political organization within the student body, has organized a diverse array of activities aimed at offering a beneficial platform for students. These endeavors serve to equip students with vital skills while also engaging in volunteer activities that contribute to the betterment of the community. Notably, the association has undertaken endeavors such as "Supporting Exam Season," "Green

Furthermore, every class has the responsibility of electing a class committee. Specifically, the individual holding the position of Youth Union Branch Secretary concurrently serves as the class president, while the Student Association Branch President simultaneously assumes the role of class vice president. This arrangement is implemented with the aim of gaining a comprehensive understanding of students' educational progress and perspectives. The representatives of the class maintain regular communication with the academic adviser and serve as an intermediary between the educational institution and the student body. On a monthly basis, the educational institution convenes meetings to facilitate the interchange and reception of viewpoints from the faculty and staff, as well as to get feedback from students regarding service attitudes, regulations, and challenges. Subsequently, the educational institution receives, evaluates, and presents suitable remedies to address the identified constraints.



**Academic freedom policy**

NTTU organizes science and technology progress meetings during each academic year. The school collects feedback on science and technology activities to record the suggestions of lecturers and researchers and complete and promulgate documents specifically regulating scientific research to improve management efficiency, such as: developing scientific research plans according to the school year; regulations on registration; organization of acceptance and implementation; compilation of reports; and relevant forms. The university has a policy to ensure fairness and support general academic freedom for lecturers, staff, and students that does not differentiate between research from senior scholars and that of new scholars.

TRƯỜNG ĐẠI HỌC NGUYỄN TẤT THÀNH PHÒNG KHOA HỌC CÔNG NGHỆ			
Trang chủ		Tin tức sự kiện	Đơn vị nghiên cứu
Tap chí Khoa học		Công bố Khoa học	Đề tài Dự án
SHTT & CGCN		DMST & Khởi nghiệp	
10.	Quyết định 664/QĐ-NTT	Quy định về đạo đức trong giảng dạy, nghiên cứu khoa học của Trường Đại học Nguyễn Tất Thành	01/10/2018
11.	Quyết định 110/QĐ-NTT	Quy định về Quy định quản lý các nhiệm vụ khoa học và công nghệ của Trường Đại học Nguyễn Tất Thành	28/01/2021
12.	Quyết định 940/QĐ-NTT	Biên soạn, lựa chọn, thẩm định, duyệt và sử dụng giáo trình, tài liệu tham khảo trường Đại học Nguyễn Tất Thành	29/12/2020
13.	Quyết định 756/QĐ-NTT	Quy định về đăng ký, lưu trữ, sử dụng và quản lý cơ sở dữ liệu về khoa học và công nghệ của Trường Đại học Nguyễn Tất Thành	10/11/2020

PEACE, JUSTICE AND STRONG INSTITUTIONS



**Promoting coordination among stakeholders**

NTTU consistently assumes an active role in providing support and fostering collaboration with various agencies and departments in the execution of its activities. During the unprecedented circumstances of the pandemic, the educational institution has provided assistance to both its faculty and students, collaborating closely with local authorities in order to collectively address the challenges through joint commitments.

The University Youth Union has established opportunities for engagement with brotherly units, armed forces, governmental bodies, corporations, and social organizations in order to enhance the scope of operations within the Union districts. This aligns with the objectives outlined in the Document of the 8th Congress of the Ho Chi Minh Communist Youth Union of Nguyen Tat Thanh University, term 2022-2024.

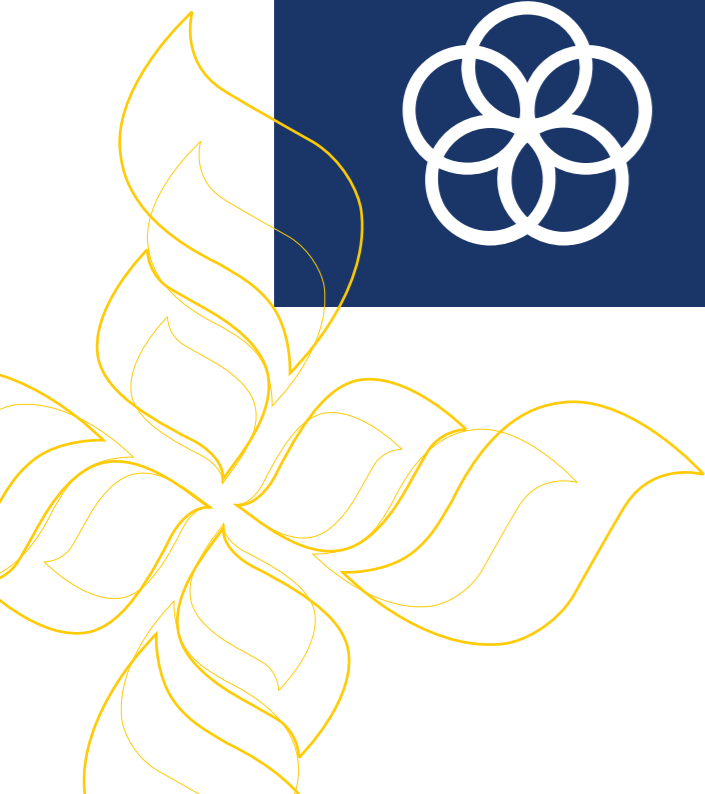


The commitment of NTTU to actively engage and interact with diverse stakeholders highlights the university's determination to generate beneficial outcomes and tackle societal concerns. NTTU and its collaborative partners endeavor to construct a future that is both sustainable and unified through collective efforts directed towards shared objectives.



PEACE, JUSTICE AND STRONG INSTITUTIONS

## 17 PARTNERSHIPS FOR THE GOALS



- **Workshop** on ICT, Tourism, Agricultural Products
- **Asia Safe**
- **Digital Doctorate**
- **Cyber Security**
- **Education** for sustainable development
- **Active Citizen** Social Enterprise (ACSE)



In the pursuit of sustainable development goals, the responsibility for their achievement extends beyond specific organizations and encompasses all social sectors globally. The attainment of sustainable development necessitates strong interconnections, not only among diverse objectives but also among educational establishments, governmental bodies, commercial enterprises, non-governmental organizations (NGOs), and individuals. In the present setting, universities assume a significant role in facilitating the advancement of the SDGs by engaging in collaborative efforts across several sectors and advocating for the implementation of exemplary approaches.

Deeply cognizant of the interrelated nature of the SDGs and the significance of multilateral cooperation, NTTU strives to contribute to solving global challenges based on its existing professional knowledge and human resources. The university and its multi-sectoral partners endeavor to foster possibilities for the exchange of knowledge, capacity building, innovation, and sustainable development through education by advocating for multilateral diplomacy and international collaboration.



#### Cross-Sectoral Dialogue, International Collaborative Data Collection, and Collaboration to Develop Implementation of Best Practices for the SDGs

##### The Meeting on reporting the results of the labor market survey in three fields: information and communication technology (ICT), agricultural products, and tourism

NTTU has engaged in collaboration with Vietnamese and European universities that are members of an international project funded by Erasmus+. The objective of this collaboration was to facilitate the organization of workshops and seminars aimed at exchanging labor market survey findings in the domains of information and communication technology (ICT), tourism, and agricultural products to enhance the employability of students by equipping them with relevant skill sets and competencies. Additionally, this collaboration aims to assist businesses in recruiting suitable workers and support educators in improving their training programs to better align with the demands of the working environment.



*Dr. Nguyen Tuan Anh, Vice President, presenting the communication plan on project goals and results to relevant parties*

#### Workshop on accessing the labor market using the European method

To have appropriate solutions to develop the labor market in the future, the speakers and conference attendees discussed and answered questions about: how to conduct labor market surveys in Europe; solutions to help universities improve training quality; forecasting human resource needs; how the results of labor market surveys using the European method applied by schools in training meet the needs of businesses; difficulties and advantages encountered when conducting work force surveys; and how the results of labor market surveys using the European method applied by schools in training meet the needs of businesses.



*Dr. Tran Ai Cam, President, Head of the meeting organizing committee, speaking at the meeting*

Over the course of several years, NTTU, being an application-oriented training university, has consistently revised its training programs, established connections with businesses for training initiatives, and introduced innovative teaching methodologies in order to fulfill the evolving demands of society's development. The survey findings from the LAB-MOVIE project have facilitated the school in adapting its training program to align with the prevailing labor market conditions. Consequently, businesses are able to optimize their investments by avoiding unnecessary expenditures on additional training for their new graduates and accessing labor resources of high quality.

### Asia SAFE

With funding from Erasmus and Linköping University (Sweden), the Asia Safe project develops a Master's degree traffic management training program with the objective of training human resources and constructing secure, intelligent traffic planning for Vietnam and member nations.

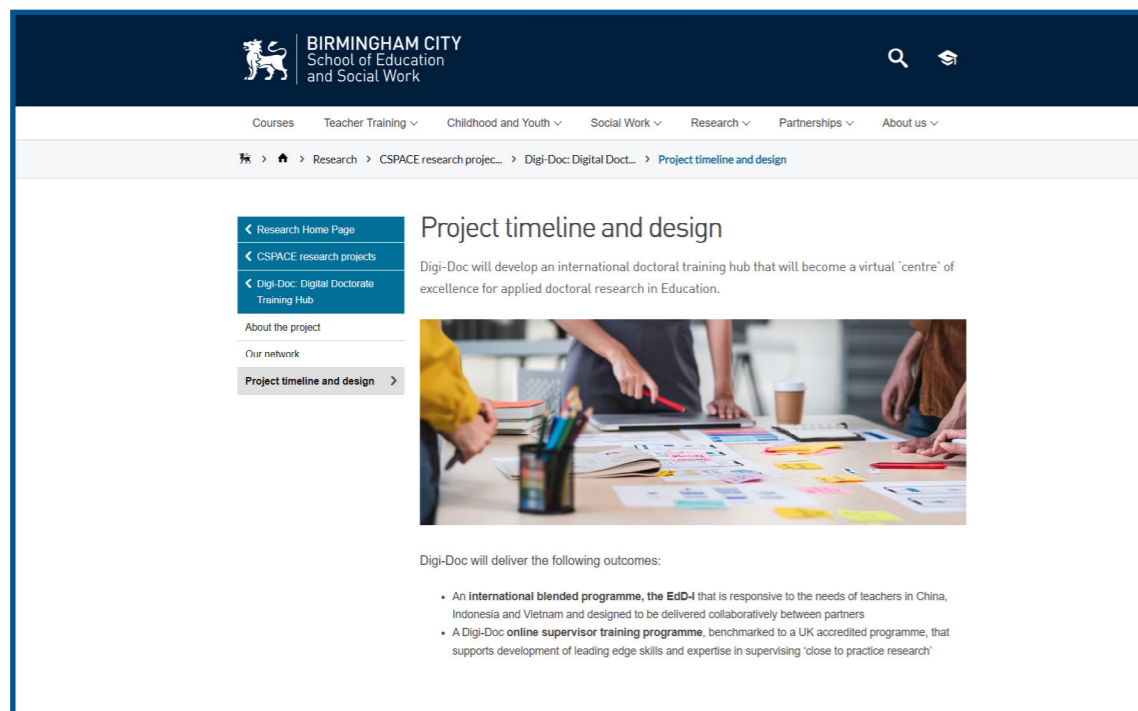
The project encompasses three partner countries, namely Indonesia, Malaysia, and Vietnam. ASEAN, in Southeast Asia, accounts for less than 3% of the global automobile population; however, it experiences approximately 12% of the total traffic fatalities worldwide. The statistic continues to exhibit a notable disparity when compared to nations with far greater rates of motorization, such as Italy, Portugal, and Sweden, which are members of the European Union.

The project received approval and funding from the European Union (EU), amounting to a total funding cost of 989,770 euros. The duration of the project's implementation spans a period of three years, commencing in January 2021 and concluding in January 2024.



### Digital Doctorate (Digi-Doc) Training Hub

The Digital Doctorate Training Hub (Digi-Doc) project has been funded by the British Council's Belt and Road Initiative with £65,000 funding (co-funding of £30,000 from Birmingham City University (BCU) for BCU staff costs and overhead) over four years from 2021 to 2024. This funding covers travel costs between the UK, Indonesia, China, and Vietnam.



The project involves the participation of six universities, namely Birmingham City University, Nguyen Tat Thanh University, Hanoi University of Education, Ho Chi Minh City University of Education, Northeastern University of Education (China), and the University of Negeri Yogyakarta (Indonesia). Digi-Doc is currently engaged in the development of a worldwide doctoral training hub, which aims to establish itself as a virtual focal point for exceptional applied doctoral research in the field of education. The implementation of Digi-Doc is expected to yield the following outcomes:

- An international blended programme, the EdD-I that is responsive to the needs of teachers in China, Indonesia and Vietnam and designed to be delivered collaboratively between partners
- A Digi-Doc online supervisor training programme, benchmarked to a UK accredited programme, that supports development of leading edge skills and expertise in supervising 'close to practice research'
- A networked international community of doctoral students and supervisors with a shared commitment to the value of 'close to practice' research"





Year 2022 is the intersection period between two workstreams: (i) Workstream 3: Developing modules for the EdD-I curriculum and the international version of the supervisor training program; and (ii) Workstream 4: Piloting EdD-I. The EdD-I program offers an opportunity for graduate students who are concurrently studying and working, as well as working individuals who desire to pursue a doctoral degree but are unable to engage in direct study within the host country (the UK).



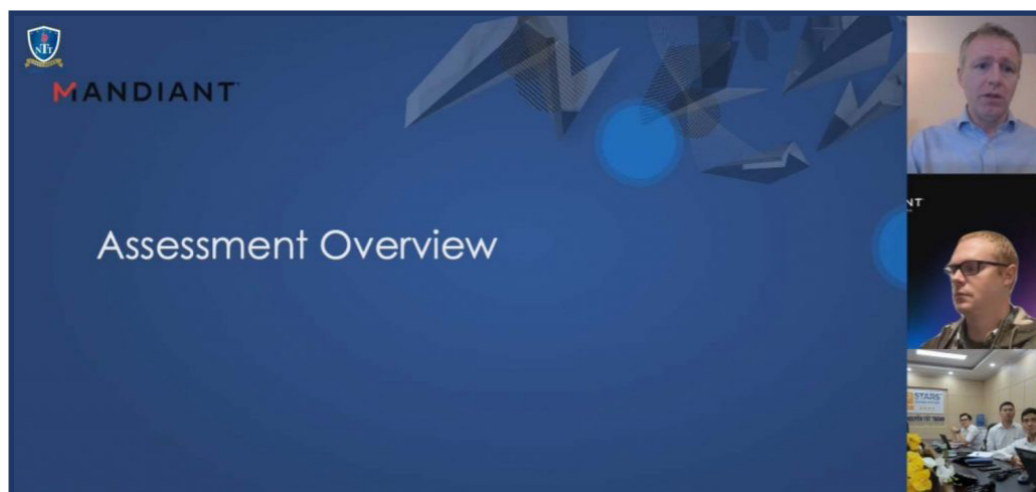
Dr. Nguyen Lan Phuong (gray vest, middle), NTTU Vice President, and member groups at the Digi-Doc Symposium

**Cyber Security**

In 2022, Nguyen Tat Thanh University collaborated with Mandiant Group (a subsidiary of the Google Group, USA) to implement an international project on information security for the safe digital transformation of the educational system. This is a project sponsored by the non-profit organization CRDF (USA) to build the management team's capacity by assisting in the detection of network security vulnerabilities through system assessments conducted with the consultation of Mandiant Group, a market leader in cyber security and threats.

Phase 1: (December 2022 to April 2023) consulting on the development of an information security strategy. In addition to fundamental information regarding the scope of operations, development orientation, etc., the two organizations held in-depth discussions regarding the information security solutions offered by Mandiant. Experts from Mandiant analyzed the current security situation, focusing on governance, security risk management, security architecture, network defense, transformation roadmap, information security system evaluation, and information security management systems.

Based on the survey findings conducted by Mandiant experts, it is imperative to ascertain the potential risks associated with information network attacks. This involves identifying the critical infrastructure that requires safeguarding, distinguishing malicious platforms, and evaluating the threat posed by targeted attack entities. These assessments are crucial for assessing the security posture, formulating an effective protection strategy, and devising a secure solution for the overall information system of NTTU.



PARTNERSHIP FOR THE GOALS



**Education for the SDGs**

**Education for SDGs commitment to meaningful education**

The training programs at NTTU are designed to meet the requirements of level 6 of the national qualification's framework, which include knowledge, skills, and the capacity to act independently and responsibly. All disciplines meet these requirements, which include (i) "solid practical knowledge, deep and broad theoretical knowledge within the scope of the training field", (ii) "basic knowledge of social sciences, political science, and law", and (iii) the desire to fulfill the school's mission of "comprehensive human development so that learners become active citizens with the capacity for innovation, integration, and high competitiveness on the domestic and foreign labor market". These are concretized by the program learning outcomes (PLOs).

The training program and the PLOs incorporate commitments to the SDGs in order to attain significant educational objectives. These commitments are designed to foster global citizenship, sustainable lifestyles, cultural diversity, etc. Furthermore, it is worth noting that distinct training programs will encompass PLOs that are designed to address the sustainable development goals relevant to each respective business.

**Training on Active Citizen Social Enterprise (ACSE)**

The primary objective of the ACSE training program is to promote individuals who are actively engaged in society and demonstrate a strong sense of social responsibility. These individuals are equipped with the necessary skills and knowledge to consistently contribute towards achieving the 17 SDGs as outlined for global citizens. The outputs are social start-up student projects focused on many aspects of sustainability, including circular economy, green economy, environmental protection, recycling, and related areas. With the aim of successfully achieving the SDGs, this program adheres to the British Council's established structure and seeks to provide training to about 20 countries.

The Innovation and Incubation Center (NIIC) has consistently executed this program for a duration of five years, offering around 1,000 students who hold the status of core active citizens at NTTU. It is among the educational institutions that have continued to uphold this practice both during and after the pandemic. The courses include:

1. Identity and culture; "Tree of Expectations" activity; practice on Mural software; learning river-the vision;
2. Multicultural dialogue-design thinking, river section introduction, self-drawing, "me and you", listening at 3 levels;
3. Local and global communities, community maps, social action planning, and start-up project implementation;
4. Business model, problem tree, problem statement, etc.



PARTNERSHIP FOR THE GOALS



## FORTHCOMING ACTIVITIES



Since 2022, NTTU has been actively implementing its strategic objectives aligned with the 17 sustainable development goals. These objectives encompass various initiatives, including: (i) the provision of educational programs aimed at equipping individuals with entrepreneurial innovative and digital capacity towards open education; (ii) the establishment of collaborative partnerships with both domestic and international universities to facilitate the collective implementation of sustainable development goals; (iii) the engagement with councils and organizations in Ho Chi Minh City, thereby fostering increased participation in addressing pertinent educational challenges; and (iv) the undertaking of research endeavors focused on sustainable development, thereby contributing to the advancement of knowledge in this field. These objectives necessitate sustained perseverance and exertion over an extended period, accompanied by meticulous monitoring and evaluation, regarding the school's endeavors to foster social responsibility.



## FORTHCOMING ACTIVITIES

### Digital competency framework: a tool towards innovative universities

The government has demonstrated a notable emphasis on digital transformation, innovation, and the integration of digital technology in education, as well as providing substantial support for lifelong learning, as evidenced by official publications. NTTU has initiated efforts to establish itself as an innovative institution by formulating strategic plans and defining its direction.

Hence, the discussion on the "Digital Competency Framework and Digital Competency Assessment Tool at Nguyen Tat Thanh University" holds significant importance and immediacy within the realm of contemporary higher education endeavors. The educational institution initially devised a strategy to establish a framework for enhancing the capacity of teaching staff and students to utilize open educational resources.



*Expert Le Trung Nghia speaking about the prerequisites for the success of educational digital transformation in Vietnam: digital capacity, digital culture, and openness*

### <https://stisd.ntt.edu.vn/> International Conference on Science, Technology, and Innovation for Sustainable Development (STISD 2023)

The focal point addressed by the STISD in the year 2023 revolves around the theme of "Establishment of Sustainable Technological Solutions for Industry and Society." The primary aim of this conference is to proficiently disseminate the latest findings and advancements in the domains of chemical engineering and industrial biotechnology to a broader audience.

The studies focus on analyzing the interconnections among demand, supply, storage, and transportation limitations within the framework of the interrelationship between food, energy, and water. These areas are of significant interest to various stakeholders, such as the private sector, researchers, scholars, industrialists, and policymakers.



### HCMC Council of Rectors

The Council of Rectors in Ho Chi Minh City is a professional organization comprising 58 universities in the city. Its primary role is to provide advice to the City People's Committee on how to effectively oversee and implement multiple programs aimed at enhancing the standards of higher education within the city while facilitating the production of highly skilled human resources. The Council comprises six associated subject area councils, namely: (i) Pedagogy; (ii) Health; (iii) Culture, Arts, Tourism, Society, and Humanities; (iv) Engineering and Technology; (v) Economics; and (vi) Politics and Law.

NTTU strives to transform into an entrepreneurial, innovative, multidisciplinary institution that seeks to achieve a high level of integration and provide education and training that aligns with both domestic and international demands, particularly in relation to the concept of Industry 4.0. Therefore, NTTU has actively engaged in six councils from various subject areas, assuming the esteemed position of Vice Chairman within the Council of Rectors regarding Culture, Arts, Tourism, Society, and Humanities.

The university puts forth efforts to enhance the quality and efficacy of higher education within the city and plays an active role in executing scientific and technological research endeavors while effectively supporting various programs and projects initiated by the city. Furthermore, it facilitates the advancement of consulting, critical analysis, developmental guidance, and the establishment of policy mechanisms for the city to collaboratively transform Ho Chi Minh City into a hub for cultivating proficient human capital within the ASEAN region.

This entails fostering scientific inquiry, establishing robust research collectives, and cultivating exceptional training facilities in the realm of 4.0 technology, of which the long-term goal is to bolster the development of the Southeast region as the nucleus for scientific advancement, technological innovation, and high-tech industries, as well as logistics and international financial centers.

## Memorandum of Agreement with Kun Shan University

The signing ceremony held between Nguyen Tat Thanh University and Kun Shan University served as an official declaration of the establishment of the SDG International Academic Alliance (SDG IAA). The primary objective of this alliance is to foster collaboration in the fields of environmental and biological research. Additionally, it aims to provide students with avenues to enhance their academic cooperation and facilitate mutually advantageous academic connections through various programs:

1. **SDG Youth Forum;**
2. **Intensive courses about the SDGs;**
3. **SDG Problem-Based Learning Workshop;**
4. **International Conference on Green Technology and Sustainable Development;**
5. **Academic SDG Site Visit;**
6. **Job Practice.**



## Green Library

The project targets the following expected outcomes:

1. **70%** of the program's modules shifting to the use of digital documents (reducing printed documents);
2. **100%** of readers coming to the library not using plastic cups;
3. Reusing textbooks and materials for first-year students;
4. Training **05** courses that guide consumers on how to find and use digital documents;
5. Completing the renovation of green space at the library;
6. Minimizing the library's electricity and water consumption.

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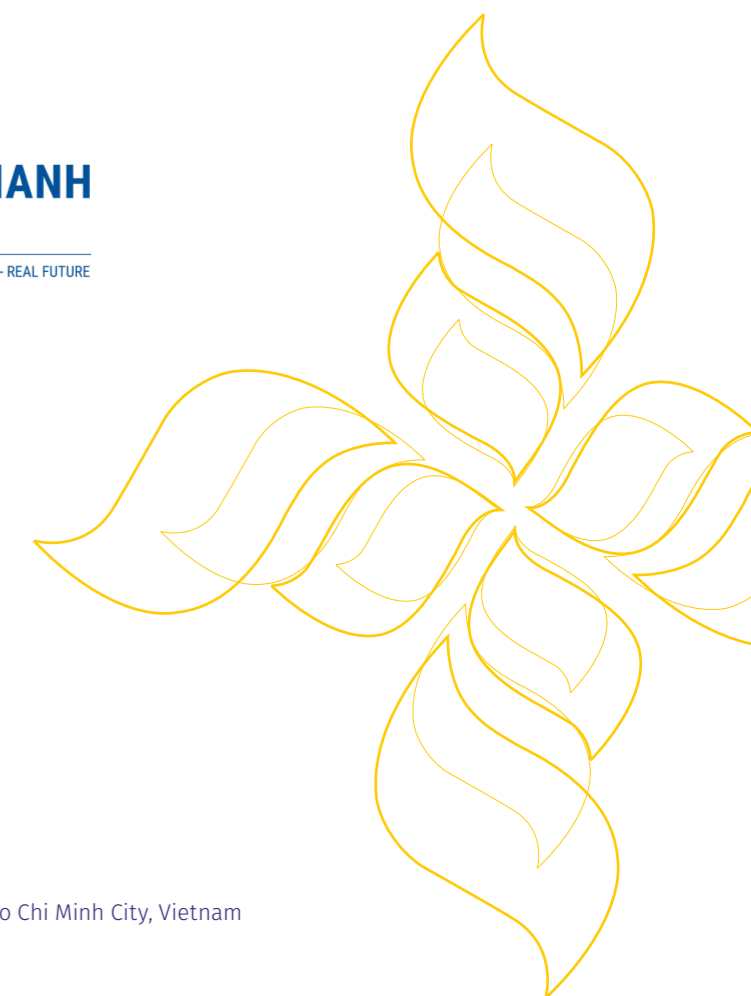
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