



HANOI UNIVERSITY  
OF SCIENCE AND TECHNOLOGY

A photograph of the HUST campus is framed by a large, stylized red 'H' shape. The photo shows a modern building with a glass facade and a large red sculpture of the letters 'HUST' in the foreground. The ground is covered with fallen red leaves. The text 'ONE LOVE. ONE FUTURE.' is visible on a black base in front of the sculpture.

HUST

ONE LOVE. ONE FUTURE.

# ANNUAL REPORT *2022*

[www.hust.edu.vn](http://www.hust.edu.vn)



<b>LEADERS' MESSAGE</b>	<b>4</b>
<b>MISSION, VISION</b>	<b>8</b>
<b>2022 HIGHLIGHTS</b>	<b>10</b>
1. Transition to the “Đại học” model	10
2. Acceleration in digital transformation	10
3. International program accreditation	11
4. Investments on renovation and upgrades of campus infrastructure	11
5. Inauguration of BK Alumni House	12
6. Highlights in students activities	13
<b>2022 IN REVIEW</b>	<b>16</b>
1. Organization and governance	16
2. Human resources development	19
3. Campus and infrastructure	19
4. Admission and Education	22
5. Research impact	25
6. Student support	27
7. Communications – External affairs	34
<b>2022 FINANCIAL INFORMATION</b>	<b>34</b>
1. Total revenue	34
2. Operating revenue	34
3. Operating expenses	35
4. Funds	35
<b>MEMBERS OF UNIVERSITY COUNCIL, BOARD OF PRESIDENCY AND DEANS OF SCHOOLS</b>	<b>36</b>
<b>LIST OF HONOR SPONSORS</b>	<b>40</b>





The year 2022 is marked with the remarkably historic transition of Hanoi University of Science and Technology (HUST) from “trường đại học” to “đại học” in accordance with the Law on amendments and supplements to the Law on Higher Education. The terms “đại học” and “trường đại học” in Vietnamese higher education system (both translated as “University”) largely reflect the scope and prestige of a higher education institution. However, “đại học” is generally considered to be more advanced than “trường đại học.” HUST’s current model transformation serves as a compelling testament to the university’s vision, strategies, and achievements, which has garnered substantial recognition and endorsement from both governmental bodies and stakeholders. The restructure also acts as the foundation for HUST to increase its resources to develop into a multi-disciplinary research university with a lean structure and an advanced organizational and governance model on par with international standards. The model transformation also stimulates ownership and innovation at affiliated units and enables the university to implement stronger decentralization embedded with the overarching commitment of “*One HUST*”.

With the determination of transforming organizational and governance models digitally and the consistent mindset of striving to improve quality and efficiency for the university’s innovation and development, HUST has successfully completed 8 key tasks of 2022. 27/30 KPIs of 2022 have been successfully achieved. The 03/30 KPIs related to postgraduate education, international patents, and financial resources to conduct research activities at all levels have yet to be achieved due to the world economic downturn following the Covid-19 pandemic.

However, in spite of this challenge, HUST’s prestige and impact in Vietnam and abroad continue to be enhanced through the ranking results of reputable organizations in the world. A number

of agreements have been signed with leading educational institutions. Additionally, scientific publication indicators and revenue from industry collaboration and international cooperation continue to witness progress. The total financial revenue has decreased slightly, but expenditure on human capital is maintained as planned. The increase in budget for campus and infrastructure maintenance has created considerable enhancements.

Tremendous impacts of the Covid-19 pandemic show strong solidarity and outstanding efforts at HUST as a whole. A number of lecturers and students had to teach and study in the evenings and weekends to keep up with their academic schedules. As a result, 6,397 students, 314 master’s students, and 85 doctoral students in total have graduated and received degrees.

The clear and positive changes of HUST are reflected in the following highlights:

- **First**, according to the 2022 QS World University Rankings, the five subjects of HUST all increased their rankings this year, placing first in Vietnam and from 300 to 450 best in the world, ranking Engineering and Technology at 360 in the world for the first time.
- **Second**, digital transformation continues to be accelerated. Version 2.0 of the eHUST system has been released with several new modules to provide more convenient access for lecturers and students to academic programs and various services. The application of D-Office system with functions of digital paperwork and digital signatures has enabled the whole university to standardize administrative documents. The application of the B-Learning digital English training model during the academic year 2022-2023 helps promote the foreign language learning movement of students throughout the university.
- **Third**, in order to augment the process of internationalization and continue to improve the quality of training, the international accreditation



Prof. LE ANH TUAN  
Chairman, University Council



of programs has been promoted and achieved good results, bringing the rate of internationally accredited programs to 64%. In particular, eight programs have been accredited by AUN-QA, two programs re-accredited by CTI standards and 16 programs assessed by ASIIN

• *Fourth*, with the motto “*student is the center*”, the infrastructure for academic activities and student support has been significantly improved: 15 new laboratories have been put into use (total investment of 270 billion VND from SAHEP project); the total area of 13,170 m2 has been renovated including dormitories, lecture halls and classrooms; the swimming pool, five volleyball and basketball courts have been renovated and modernized to serve the students. The BK Alumni House was inaugurated, providing an open space for generations of HUST people to return, connect with the university, and support current students in studying, research, entrepreneurship, and career guidance.

The overarching direction in 2023 is “*Innovation – Digital Transformation and Green Transformation*”. The university leadership team and all staff members are determined to promote persistent innovations in university development through renovating university governance, academic training, and research. HUST continues to develop new research directions for regional and world integration, focusing on research with high scientific content and high impact while simultaneously creating digital learning materials and innovating pedagogical methodologies to develop HUST towards the model of a “Shared Digital University”. In addition, HUST will continue to preserve our green campus, implementing 5S regulations in laboratories, workshops, lecture halls, and offices. Every HUST staff member and student will continue to follow our codes of conduct to maintain a professional and friendly education environment.

Hanoi, July 2023

PP. University Council  
Chairman



Prof. Le Anh Tuan

President



Assoc. Prof. Huynh Quyet Thang

Assoc. Prof. HUYNH QUYET THANG  
President, Hanoi University of Science and Technology



MISSION

We commit to human development, high-quality education, scientific research, technological innovation, and knowledge transfer for the betterment of our nation and society.

VISION

We strive to become the leading research university in which engineering, and technology are at the core of the university and to contribute to the development of the knowledge economy, peace and security, and Vietnam’s higher education.



<div>#99</div> <div>SDG8: Decent work and economic growth</div> <div></div>	<div>#101-200</div> <div>SDG7: Affordable and clean energy</div> <div></div>	<div>#248</div> <div>Best University in Asia</div> <div></div>
<div>#360</div> <div>Engineering and Technology</div> <div></div>	<div>#301-350</div> <div>Electrical and Electronic</div> <div></div>	<div>#301-350</div> <div>Mechanical, Aeronautical &amp; Manufacturing</div> <div></div>
<div>#351-400</div> <div>Mathematics</div> <div></div>	<div>#401-410</div> <div>Materials Science</div> <div></div>	<div>#401-450</div> <div>Computer Science and Information System</div> <div></div>



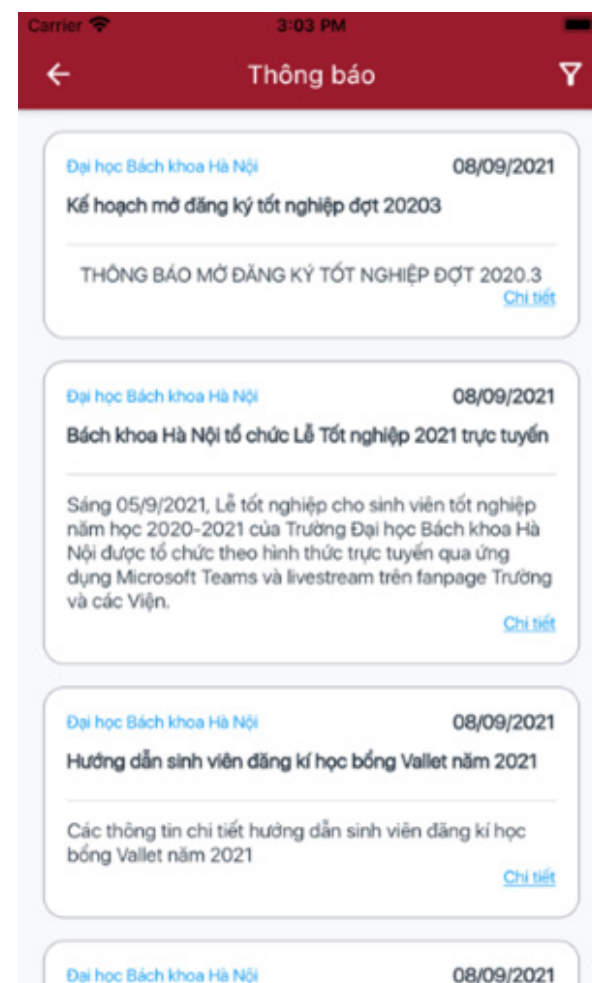
## 1. TRANSITION TO THE “ĐẠI HỌC” MODEL

On 02/12/2022, the Prime Minister issued Decision No 1512/QĐ-TTG of the Prime Minister on Transitioning HUST to the “Đại học” model. This transition had been prepared carefully to ensure:

- Alignment with the policies of the Party, the government, and trends in global higher education development;
- The results and experience of the autonomy regime thus far;
- Compliance with the directions, vision, and strategy of the university.

## 2. ACCELERATION IN DIGITAL TRANSFORMATION

- Version 2.0 of eHUST has been released with new functions. It enables digital integrations of administrative, research and academic services. Online payments via Viettel Pay are also applied.
- Digital office has been put into use university-wide, integrating digital signing function by mobiles, tablets and PCs/laptops. It will later be linked to the eOffice system of MOET and the national data stream.



## 3. INTERNATIONAL PROGRAM ACCREDITATION

In the process of internationalization at HUST, until 2022, HUST has 39 internationally accredited programs, accounting for 64% of all programs, of which:

- 2 programs accredited by CTI standards;
- 21 programs accredited by AUN-QA standards;
- 16 programs accredited by ASIIN standards.

Of the 39 internationally accredited programs, 26 programs are accredited in 2022.



## 4. INVESTMENTS ON RENOVATION AND UPGRADES OF CAMPUS INFRASTRUCTURE

- 15 new laboratories with the total investment of 270 billion VND from SAHEP project have been put into use.
- Renovated and repaired the total area of 13.170 m<sup>2</sup> including lecture halls, dormitories, and sports courts.







5. INAUGURATION OF BK ALUMNI HOUSE

- The house serves as the headquarter of HUST Alumni Network and the reunion space for the alumni to connect with HUST in terms of studying, research, entrepreneurship, and career guidance.
- 10 representative boards and two newly established alumni clubs <sup>(1)</sup>.
- The BK-Fund and companies owned by alumni have jointly organized 3 “BK Tech in Life” events which attracted more than 8,000 student participations.

- <sup>(1)</sup>• 05 Representative boards by majors of Electrical system, Textile, Engineering pedagogy, Vietnam-Japan Information Technology and Economics
- 04 Representative boards by location: Da Nang, Vung Tau, the South of Vietnam, and Japan
  - 01 Representative board by workplace: FPT Corporation
  - 02 clubs: Golf club and Music club

Contact Alumni Network office:  
Phone: (+84)024 3 869 0071  
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6. HIGHLIGHTS OF STUDENT ACTIVITIES

- HUST has won First place at the 24<sup>th</sup> Physics Olympics for university students, including three first-place awards for multiple choice questions, one first and one second-place award for Exercise, and two second-place awards in Experiment. 12 HUST students registered for Mathematics Olympics in the Individuals sections, of which are one first-place, five second-place, four third-place awards and one consolation prize. At the Mechanics Olympic, HUST has won three first-place prizes in subjects of Engineering mechanics, Strength of materials, Hydraulics and for individual prize: four first-place, 11 second-place, and five third-place awards.
- The number of high-quality scientific publications with the students as authors has increased significantly. As many as 81 research articles

were published within the conference for student research (showing an increase of 60% compared to 2021), of which 39 articles with the students as the main and corresponding authors.

- The project framework for the Youth Creativity Contest 2022-2027 has been approved. This year’s contest has received 26 proposals, of which 23% of the proposals and 44% of the participants are from other universities, spreading the innovation spirit to entrepreneurship ecosystems at technical universities.
- More than 40,000 turns of students participated in 3 career days. 25 career seminars have been organized in online, offline, and hybrid form.







THƯ VIỆN  
TẠ QUANG BỬU



**HUST**

ONE LOVE. ONE FUTURE.



## 1. ORGANIZATION AND GOVERNANCE

### Transition to the “Đại học” model, with a view to becoming a leading research university in the region

Decision No 1512/QĐ-TTg of the Prime Minister on Transitioning HUST to the “Đại học” model is the result of a long process of preparation, cultivated from the aspiration, efforts, and wisdom of HUST generations, reflected in the important milestones as follows:

- On March 28, 2011, the Minister of Education and Training (MOET) issued Decision No. 1211/QĐ-BGDĐT as signing HUST to pilot the autonomy and self-responsibility working scheme for some contents of training activities, organizational structure, staffing and finance.
- On October 6, 2016, the Prime Minister issued Decision No. 1924/QĐ-TTg, approving the pilot project to renovate the operating mechanism of HUST. This decision sets the foundation for piloting higher education autonomy in the spirit of the Government’s Resolution No.77 (pilot renovation of the operation mechanism at public higher education institutions during 2014-2017) and

Decree No. 16/ND-CP (the Government stipulating the autonomy mechanism of public non-business units, dated February 14, 2015).

- Exercise autonomy under the Law amending and supplementing a number of articles of the Higher Education Law (Law No. 34) passed by the National Assembly on November 19, 2018, effective from July 1, 2019.
- In 2021, HUST established 3 schools and submitted the project to transform the model into “đại học” model to MOET.

According to the content of Decision 1512/QĐ-TTg, HUST is an autonomous public non-business unit directly under MOET. During the transition from December 2022 to March 2023, in order to ensure normal operations without causing loss and waste of financial and property, the Executive Committee of the Party Committee issued Resolution No. 327-NQ/ĐU on December 3, 2022, the University Council issued Resolution No. 73/NQ-ĐHBC dated December 3, 2022, on maintaining the organizational structure and operation of HUST.



On March 17, 2023, HUST held a ceremony to announce the decisions to transform HUST into the “Đại học” model, recognizing the University Council, the Council Chairman, and the University President, and the resolutions on the transfer of Vice Chairman, Secretary of the Council, Vice Presidents of the University and Chief Accountant. Following the directions of Minister Nguyen Kim Son at the meeting on the same day, HUST is committed to developing a multidisciplinary university model, towards the practices of advanced universities in the world; putting the task of international integration in training and scientific research as the focus of the development strategy. The tasks of HUST in the coming time is to develop and implement governance and university management initiatives more boldly in order to become one of the leading higher education institutions in Asia (Resolution No. 14/NQ-CP dated February 8, 2023 of the Government).<sup>(2)</sup>



<sup>(2)</sup> Resolution No. 14/NQ-CP dated February 8, 2023 of the Government on the Government's Action Plan to implement Resolution No. 30-NQ/TW of the Politburo dated November 23, 2022 on the promotion of the socio-economic development and ensuring the national defense and security in the Red River Delta by 2030, Vision to 2045



Developing and implementing synchronously solutions to diversify revenue streams

In addition to the revenue from tuition fees, HUST has deployed solutions to promote activities and increase revenue from the innovation ecosystem (training - research and innovation - entrepreneurship), from continuing education activities and training services, including:

- On the basis of scientific research results, HUST has coordinated with partners to form 2 spin-offs: BK Mass Storage Technology Jsc (BK PMS); DTP BATTCOM Jsc; signed a cooperation agreement to soon establish the spin-off Advanced Carbon Technology Jsc.
- With efforts to develop structure and quality of operation, the revenue transferred from BK-Holdings Enterprise System in 2022 increased

by 19.8% compared to 2021. At the same time, BK-Holdings help to expand HUST's innovation system nationwide and explore the potential of international cooperation. BK Holdings collaborates with Duy Tan University to open the joint BK-Holdings-Duy Tan Innovation Center and with Creative Valley to open a representative office of BK-Holdings in France.

- The School of Continuing Education has promoted training, professional retraining, short-term, and foreign language certification courses, boosting the total revenue by 6 times compared to last year.

2. HUMAN RESOURCES DEVELOPMENT

Throughout the process of model transformation and governance modernization, HUST has always paid attention to fostering and improving the quality of the staff members. In 2022, human resources training has been implemented on a large scale, accommodating the training needs of 1,096 participants. In particular, a number of new training contents were deployed for the first time, such as the special session for strategic level managers and seminars on university governance such as "Quality of higher education," and "University governance in the context of digital transformation and internationalization".

Time	Training contents	No. of participants
March	Radiation safety	15
May	English (IELTS, TOEIC)	98
June	+ Seminar "University governance in the context of digital transformation and internationalization" + Security	423
July	Training for lecturers and class coordinators for online English programs	31
August	+ Advanced Political Theory + Professional Title of Lecturer	180
September & October	+ Digital transformation and trends in developing digital universities + Training for strategic level managers + Training for educational inspection collaborators + Accreditation using ASIIN standards	249
November	+ Training on fire prevention and fighting + Senior Political Theory + Advanced Political Theory (part-time)	200
Total		1,096

3. CAMPUS AND INFRASTRUCTURE

Renovate and upgrade campus infrastructure to meet the requirements of teaching and learning innovation

- With the motto "student is the center", in 2022, the university has made efforts to improve the facilities for teaching and learning. The total area of renovation and repair for teaching, research, and student support in 2022 was 13,170m<sup>2</sup>. This is compared to 9,359m<sup>2</sup> in 2021, which included the following: the dormitories B5, B6, B7, B10, B13; sports areas, B9 football court, B7 basketball court, swimming pool; many lecture halls and classrooms in buildings D3, D4, D5.





- 15 new laboratories have been put into use for subjects of Electricity, Electronics, Mechanics, Mechatronics, and Materials. The total budget of 270 billion VND derived from the World Bank sponsored SAHEP project. Since then, 26 courses have been converted from exercises to experimentation courses; 257 new experiments have been devised; the number of laboratory tables has increased 4.7 times compared to 2021 (from 167 to 791 tables).
- 12 investment projects for basic sciences laboratories have been reviewed, of which three laboratories have been approved for investment implementation, including: General Physics 1 & 2 Laboratory, Food Microbiology Analysis Laboratory, and Pharmaceutical Chemistry Laboratory.
- Facilities for National Defense and Security Education has been renovated, using Building B7 and the exercise court in Building B13. Mode of training has also been renewed, following a centralized model, ensuring quality and military manners. Starting from the academic year 2022-2023, students can take the National Defense and Security course in a new, modernized, and effective way.



**Implement the project of optimal and effective exploitation of existing facilities and promotion of investment projects**

- The project of using public property for lease at HUST has been approved by MOET under Decision No. 1884/QĐ-BGDDT, dated July 5, 2022. HUST has conducted an auction of the right to exploit the property in accordance with the provisions of the Law on Auction and the Law on Public Property Management.
- Regulation on the use of meeting rooms, classrooms, halls, and courtyards of HUST was issued in Decision No. 1939/QĐ-ĐHKB dated November 24, 2022, in order to improve the efficiency of facilities for common use throughout the university.
- The area in plot 10 of the temporary market, borrowed by the People's Committee of Bach khoa ward many years ago, has been recovered to serve the construction of Building A5.
- Disbursement of SAHEP project, and particularly the C7 building construction element, has primarily been done as planned. The investment items of equipment for research and training have been substantially completed. The research projects within the SAHEP framework have also been approved and accelerated in implementation.
- Development investment projects from MOET include three main projects: Investing in information technology application equipment used for digital transformation and building online courses for university training in the field of

engineering and technology disciplines; Investing in a laboratory for smart digital technologies and AI to serve the country's industrialization and modernization; Investing in a laboratory for life sciences and conserving genetic resources for the conservation and balance of the ecosystem.

- Proposals for investment projects to improve capacity from concessional loans of ADB and World Bank have received comments from relevant ministries for further improvement. Projects funded by non-refundable ODA have been approved and implemented in accordance with current regulations. The two projects funded by non-refundable ODA of the Japanese Government have also been approved. This includes the project "Strengthening research capacity in the field of welding for HUST" with the total funding of 550 million yen for three years, and the project "Innovation of natural rubber science and technology for the global carbon cycle" with the total funding of 391 million yen.





4. ADMISSION AND EDUCATION

Maintain the university admission standards

Talent selection was professionally organized, and the results were announced on June 29, 2022. The total number of candidates registered for Talent selection increased by 20% compared to 2021. Of which, the 1.1 and 1.2 categories increased steadily and the 1.3 area increased significantly (25%), evenly distributed across all training programs. The quality of candidates is also improving:

- The number of candidates from specialized schools increased by 13.2% compared to 2021.
- 15% of the candidates who passed the A00 combination were in the top 1.1% of the country.
- 6% of the candidates who passed the A01 combination were in the top 1% of the country.

In addition, there were 1,686 female candidates enrolled, accounting for 23.3% of total candidates

The overall confirmation rate was only 95.72% of the quota (EliTech programs reached 93.14%, and international training programs reached 92.3%). The reason is that the recruitment sources in 2022 are fewer than those in previous years. The setting of a fairly high quality assurance threshold has indirectly made the recruitment source much reduced; the general communications for industries and professions in the engineering technology sector has not been done well.

Renovate the graduate admission process and provided training associated with scientific research

- Regulations for Graduate Admissions have been issued to meet the current situation of university enrollment, Regulation on Graduate Admissions and Education of MOET. Regulation on scholarships for graduate students have been approved and implemented to attract learners to research-oriented higher education programs.
- Admission for master's programs in 2022 has been renovated in the form of direct admission for candidates who satisfactorily fulfill all the stipulated entrance requirements for graduate programs.
- The work of promoting, consulting and supporting to meet entrance standards for doctoral programs has been improved. The process of direct admission for these programs has stabilized, creating favorable conditions both for PhD candidates and training units to conduct recruitment.
- Regulation on Management and Implementation of University-Level Research Projects has been revised to establish a mechanism for compensating professional contracts extended to graduate students, doctoral candidates, and post-doctoral researchers. This initiative aims to facilitate the advancement of postgraduate education. As of December 2022, university-level projects have registered to provide research-oriented training for a total of 44 master's students and 16 doctoral students with specialized research groups.

However, the labor market's demand for post graduate human resources has decreased, thereby the desire for graduate study among students inside and outside the university has decreased sharply. Most of the talented students have been recruited into highly sought-after positions right after graduating with their undergraduate degree, especially students of Information Technology and Automation majors.

Boost the building of digital learning materials, digital learning content management system (LCMS) and upgrading learning management system (LMS)

- HUST has issued Regulation on Updating Digital Learning Materials and conducted training for faculty staff to complying with the university's standards.
- The platform for the LCMS system has been constructed with a plan to design digital learning materials by module. This allows for digital learning materials to be uploaded on the eHUST platform—building connections between systems for students and lecturers to use at ease. Noteworthy points include the following:
  - + 72,9% of the courses taught in the semester use digital learning materials on the eHUST system.
  - + 20 experiments within the framework of the SAHEP project are standardized and digitized to improve the quality of experimental practice and enhance experiential training.
- The LMS Moodle system has been upgraded, rendering it notably user-friendly and straightforward to navigate while maintaining operational stability. Certain functions of the system have been expanded, thereby ensuring seamless operation across nearly 400 courses serving a population of 13,300 students during the two main semesters of the 2021-2022 academic year.

Focus on program accreditation

- In 2022, HUST has stepped up the accreditation of programs. So far, the university has a total of 39 internationally accredited programs. Of which, 23 programs have met AUN-QA standards, two programs have satisfied CTI standards, and 16 programs have achieved ASIIN accreditation in the first quarter of 2023. This brings the percentage of internationally accredited programs to 64%.
- Out of the 26 total programs that have been accredited and re-accredited in 2022, it is noteworthy that eight programs within the fields of Electrical-Electronics, Mechanical Engineering, and Materials Science have been endowed with new laboratories. These state-of-the-art facilities have been made possible through funding under the SAHEP project, generously sponsored by the World Bank.
- In order to accelerate the process of internationalization and international integration in training, Hanoi University of Science and Technology has selected ASIIN accrediting organization, a prestigious accrediting organization in the system of the European Association for Quality Assurance in Higher Education (ENQA), to evaluate 16 programs of HUST. Accreditation experts from ASIIN think highly of the capacity of lecturers, staff, specialized laboratories, and business cooperation activities at HUST.





**Implement the Bachelor-Specialized Engineering programs according to new standards**

- 26 Bachelor-Specialized Engineering programs using new standards have been approved and fully communicated to students K65, K66, K67 at the first orientation week, and to graduating students in the last week of the cohort. Bachelor's and Master's of Science programs have also been smoothly run and communicated specifically to students K64, 65, 66.
- The new Biomedical Engineering program has started enrolling students from K67. The curriculum of Textile Technology has been revised, other new programs such as Microelectronics & Nanotechnology, Industrial Engineering of Polymers and Composites, Bioengineering, and Energy Management have been gradually completed to be included in the 2023 course catalog.
- HUST promotes the development of internship options associated with the placement semester and conducts a survey of students' satisfaction about such internships. The School of Information and Communication Technology has built a platform to connect internship opportunities for more than 600 students to a network of partner businesses. 50% of students continue to work at their designated enterprises after the internship. At the School of Chemical Engineering, more than 60% of surveyed students are working in businesses within HUST's close partner network.

In addition to the 20 experiments under the SAHEP project, which have been standardized and digitized, the development of sample tests and standardization of exercises and experiments is generally slow due to the diversity of experiments and the need to continue to invest in new equipment for experiments.

**Promote the use of English in teaching**

- The project of organizing the English proficiency test according to the six-level Foreign Language Competency Framework for Vietnam has been approved by the Quality Management Department, MOET in Dispatch No. 1141/QLCL-QLT dated August 17, 2022. HUST has organized two exams on September 28 and October 26, 2022 for 130 candidates from many provinces in Vietnam and some international candidates from Europe and Africa.
- The digital English training model in the form of B-Learning in cooperation with IIG Company has been completed, put into testing in the 2021.2 semester and officially applied in the 2022.1 semester. Accordingly, five courses with levels from basic to advanced, (levels A2 to B2) were built and more than 30 trainers were trained to teach the new program. 10 pilot training classes were conducted for students in the 2021.2 semester and more than 80 formal training classes in the 2022.1 semester



**5. RESEARCH IMPACT**

**Update research policies and planning of research groups to increase the quantity and quality of scientific publications and intellectual property**

- Regulation of Management and Implementation of University-Level Research Projects have been adjusted and promulgated to establish a structured framework aimed at drawing resources for research participation. Noteworthy innovations include the following: Augmentation of general funding; Enhancement of funding allocations to support international publication and registration of inventions and utility solutions; Provision for financing domestic and foreign experts' attendance at conferences, thus attracting reputable scholars to contribute expertise to the projects; Amplification of the project manager's initiative by adjusting the duration of the project,

extending the maximum period from 12 to 24 months and while imposing a condition against project extensions; Promotion of domestic and international enterprise involvement by increasing reciprocal funding opportunities.

- Regulation on Rewarding Academic Staff with Outstanding Achievements in Scientific Research and Teaching has been adjusted; the management of intellectual property rights is also adjusted according to the revised Law on Intellectual Property.
- Established two research laboratories in the field of Biotechnology and Food Technology. The Appraisal Council continued to appraise the proposal to establish 13 laboratories under the School of Electrical - Electronics Engineering and the School of Mechanical Engineering.



**Foster collaboration with domestic and international business partners, funds and grants to develop core technologies and products that are competitive in the market**

- The use of funding resources, cooperation in scientific research and innovation with corporations and enterprises still face a variety of obstacles. HUST has proposed synchronous solutions and recommendations to such problems through a meeting between 3 parties: HUST, Vietnam Oil and Gas Group PVN (Industry), and the Ministry of Science and Technology (MOST, State). HUST has led similar discussions and developed reports for the Prime Minister, the National Assembly's Committee for Culture and Education, and the MOST on promoting scientific research, innovation, and entrepreneurship in educational institutions.
- HUST directed the signing of a cooperation agreement between the Club of Technical Universities (G26), the National Innovation Center (NIC), and the Ministry of Planning and Investment. A number of conferences, seminars, and training activities chaired by NIC have been implemented to create favorable conditions for scientists from higher education institutions to approach the industry.
- HUST hosted many meetings with leaders from Hanoi Department of Science and Technology (Hanoi DOST) on research ideas and projects to solve problems for the capital. HUST will coordinate in the project of Innovation Incubator, connecting

the university to businesses within capital area. At the same time, the two parties agreed upon implementing long-term research programs with grounds to implement the proposals at the request of the Department. HUST has cooperated with Hanoi DOST to successfully organize the exhibition, "Digital transformation and innovation in Hanoi 2022".

- In August 2022, LVT Hi-Tech Solutions Development and Distribution JSC officially signed a cooperation agreement with the School of Engineering Physics. Drawing from both comprehensive and thorough education and research, the goal is to commercialize products of high-tech solutions. In November 2022, two projects of HUST also received support from VinGroup's Innovation Fund (VINIF). At the same time, the university continues to effectively implement cooperation activities with the business network led by alumni: Coordinating with Viettel Group; Developing internship and recruitment programs with HABECO company; Cooperating with EVN to research hydraulic speed control systems; Receiving funding from PVN Group to build laboratories that boost research capacity and productivity.
- However, the number of cooperation projects with Hanoi capital is still small due to limited contact and experience with businesses in the area. The implementation of business cooperation projects is still difficult due to the lack of synchronization of professional and disbursement activities.



**6. STUDENT SUPPORT**



**Promote innovation and entrepreneurship among learners.**

- The roadmap for activities to support student clubs in 2022 was issued according to Plan No. 178/KH-ĐHBK-CTSV dated February 28, 2022. 100% of schools house academic and foreign language clubs. The Youth Union/Student Union, Student Affairs Office, and Research Management Office all have student clubs for talents, interests, and volunteering. Currently, there are a number of strong student organizations: Study Support Club, Student of 5 Merits Club, HMC Club, MIC Club, Martial Arts Club, HUST-UPRACE Club, ICTSV Team, Thanh Hoa Compatriot Youth Team, Phu Tho Compatriots Volunteer Club, Nam Dinh Compatriots Volunteer Club, etc.
- The Regulation on Rewarding Students in Scientific Research and Innovation activities has been pronounced, specifying the qualifications for the student R&D index based on the following guidelines: achievements in scientific publications, present at all levels of the S&T competition, and the level of participation in S&T events. The regulation has attracted student participation in scientific research activities, and lecturer participation in supervising research projects. Within the framework of the Conference of Student Research, 81 articles included the participation of students (an increase of 60% compared to 2021). Of those 81 articles, 39 had students as the main authors and contact authors, 15 were publication ranked in Q1, three in Q2, seven in Q3, and one article in Q4.

- The Youth Creativity Contest project, with a five-year implementation framework (2022-2027) and the Organizational Regulation, has been approved. The 2022 Contest has attracted 36 projects. Of which, 23% of the proposals and 44% of the participating students came from other universities. The result is the spreading of innovation, entrepreneurship, and S&T products, demonstrating the connecting power of the innovative startup ecosystem.
- A number of activities to support student participation in Innovation and Entrepreneurship forums and competitions outside the university have also been carried out. In 2022, 2 projects participated in the final round of the national student startup contest, one project won a consolation prize.
- Nonetheless, there remains insufficient coordination among pertinent administrative offices responsible for club management and support. The exchange of information pertaining to the clubs' activities and plans between the sponsoring unit and the university remains constrained. Consequently, this limitation hinders the optimal mobilization and utilization of resources, thereby impeding the realization of the clubs' full potential.



Implement counseling activities on physical and mental health for learners; revise methods and enhance quality of academic advising

• In September 2022, HUST issued the Code of Communication within the university and on Digital Platforms, which comprises six concise and easily memorable guidelines for staff and an additional six for learners. These guidelines are designed to facilitate effective and responsible communication practices.

### 6 QUY TẮC VĂN HOÁ GIAO TIẾP TRONG NHÀ TRƯỜNG VÀ MÔI TRƯỜNG MẠNG

Đối với Cán bộ, Viên chức, Giảng viên

1. Tôn trọng, trung thực, đoàn kết, hợp tác và chia sẻ với đồng nghiệp.

2. Đúng mực, công bằng, gương mẫu, tận tình, trách nhiệm với người học.

3. Lịch thiệp, văn minh, chu đáo với khách của Trường.

4. Trang phục lịch sự, phù hợp với môi trường sư phạm; đeo thẻ còn bộ khi đến Trường.

5. Ứng xử chuẩn mực, văn minh trên môi trường mạng.

6. Có ý thức, trách nhiệm bảo vệ danh tiếng và tài sản của Trường.

Đối với Sinh viên, Học viên, Nghiên cứu sinh

1. Kính trọng, lễ phép, tôn trọng đạo đức với thầy cô, tôn trọng, hợp tác, lịch sự, nhã nhặn với cán bộ, nhân viên Trường.

2. Đoàn kết, tương trợ, bình đẳng và tôn trọng sự khác biệt với bạn bè.

3. Thôn thiên, lịch sự, tôn trọng hướng dẫn với khách của Trường.

4. Trang phục phù hợp với môi trường sư phạm; đeo thẻ sinh viên/học viên khi đến Trường.

5. Ứng xử chuẩn mực, văn minh trên môi trường mạng.

6. Có ý thức, trách nhiệm bảo vệ danh tiếng và tài sản của Trường.

• Counseling initiatives aimed at addressing both the physical and mental well-being of learners have been actively implemented in alignment with the objectives outlined in the “Enhancing the Effectiveness of Academic and Psychological Support and Counseling for Students in the Period of 2021 – 2025” project. These include: (1) Organizing an average of three weekly activities to support students and homeroom lecturers with academic and psychological counseling; (2) Maintaining accessible contact points and promptly responding to direct consultation requests at room 101-C1; (3) Communicating counseling activities to both students and staff; (4) Gathering and sharing insights into students’ challenges and concerns to relevant stakeholders. To date, the support and counseling activities have received 17,000 reviews from students participating in the activities, with over 90% expressing satisfaction

with the counseling provided. Notably, there has been a discernable increase in the number of students showing academic progress, and the percentage of students who have received academic warnings. Moreover, the university has achieved a 100% satisfaction rate for one-on-one counseling requests.

• During the first term of the 2022 – 2023 academic year, in addition to the online group consultation sessions, the Project Coordination Board held three Students Affairs conferences. These conferences involved the School of Electrical and Electronics Engineering, the School of Mechanical Engineering, and a few other schools.

Run Tran Dai Nghia scholarships and scholarships from businesses effectively

• The Tran Dai Nghia Scholarship has been established and awarded to students who, despite facing difficult circumstances, demonstrate the exceptional determination and commitment to academic excellence. During the 2021.2 semester, the number of scholarships granted increased by 34%, and the total amount dispersed increased by 55.4%, when compared to the 2021.1 semester.

• 10 sponsored scholarship programs continue to be administered effectively, including scholarships from EVN, Mirae Asset, LG Display, Vietchem, AI-CCF, TNG, Zeon, Take Wing Polytechnic, TOEIC-CCF, and CCAN-CCF. These scholarships collectively hold a total value of approximately 4 billion VND, providing valuable financial support to deserving students.

• In 2022, many businesses had to temporarily stop providing scholarships for students due to the impact of the Covid-19 epidemic. The process of scholarship consideration and the management of scholarship-related data have not been synchronized and integrated within the same system, potentially posing challenges in efficient scholarship administration during this period.

Developing internship and job opportunities at companies within the partner network

• HUST has forged collaborative partnerships with industry stakeholders to organize three career orientation and job introduction events, along with 25 career orientation, recruitment, and skill training seminars for students. These activities have adopted a hybrid approach, blending of online and offline components, attracting more than 40,000 participating students.

• Career portal is put into operation with more than 250 job and internship posts. It serves as a resource for students to also study labor market requirements and trends.

• Schools within the university have actively collaborated with business partners to organize career orientation activities and introduce internship and employment opportunities. These efforts have been integrated into events such as the Mid-term Citizenship training session, Graduation Week, and Student Research Week. In which, the School of Information and Communication Technology, the School of Electricity-Electronics Engineering, the School of Economics and Management, and the School of Textiles, Leather and Fashion have effectively implemented these initiatives.

• The Alumni Network, in partnership with the BK-Fund and businesses helmed by HUST alumni, has implemented a number of initiatives aimed at supporting start-ups. The “BK Tech in Life” program has successfully had three editions conducted so far, attracting more than 8,000 turns of students.

• However, after promulgating the criteria for Close Partners in accordance with the regulations, there has been an absence of proper acceleration of priority policies designed to foster collaboration with these designated partners. This shortfall is particularly conspicuous in areas related to corporate semesters, internships, student employment, research collaboration, funding, and support for innovation start-ups.

28 | ANNUAL REPORT 2022

ANNUAL REPORT 2022 | 29



## 7. COMMUNICATIONS – EXTERNAL AFFAIRS

### Continue to build a network of close partners as reputable foreign universities, large corporations and organizations, and develop a database of external cooperation

- Implement the Development Strategy of HUST for the period 2017-2025 with the vision of “becoming a leading research university in the region with the core of engineering and technology”, for the development goal of “building an innovative, open, and international academic environment; attracting excellent students and excellent scholars at home and abroad to study, research and work”, the Executive Committee of the Party Committee of HUST, term XXX for the period 2020-2025 issued Resolution No. 303-NQ/DU dated September 19, 2022 on Internationalization of HUST. This resolution has articulated a series of ambitious targets that HUST aims to achieve by the year 2025.
- In addition, a number of policies and regulations to promote internationalization development have been issued, including:
  - + Regulation on Management of Foreign Cooperation Activities of HUST;
  - + Project to attract foreign scholars in the period of 2022-2026;
  - + Regulation on Close Partnership of HUST.
- In 2022, the project team on digital transformation in external cooperation activities has gradually completed the data and service modules on the eHUST system. This is an important basis for the whole university to digitize the external affairs data and effectively develop the partner network, contributing to the implementation of the 17-25 Development Strategy.
- Regarding academic partners, academic units have followed the direction of developing effective cooperation with academic partners and have implemented collaboration with a total of 66 partners in 2022, an increase of 53.5 % compared to 2021. HUST has signed cooperation agreements with a number of prestigious academic institutions

such as the University of Portsmouth, Aston University (UK), University of Connecticut (USA), Obuda University (Hungary), Korea National Science and Technology Research Council (Korea), Monash University, Adelaide University, Western Australia University (Australia), University of Tokyo (Japan), Technical University of Denmark (Denmark), Grenoble University INP, University of Clermont-Auvergne (France), University of Europe for Applied Sciences (Campus Hamburg, Germany).

- With a steadfast commitment to fostering close partnerships with industry players in education and research, the university has witnessed a 14.5% increase in the number of esteemed business partners compared to the year 2021. The strategic focus centers on establishing comprehensive collaborations with prominent corporations and enterprises, with the aim of securing financial support for the enhancement of classrooms, facilities, and laboratories. Additionally, these partnerships enable the provision of scholarships to students, support for engagement in start-up initiatives, and the expansion of internship and employment opportunities. Notably, the total funding allocated for cooperation and sponsorship activities increased by 32.5% over the previous year. Some exemplary corporate partners who have played a pivotal role in this endeavor include the Asian Development Bank (ADB), Samsung Display Vietnam, Samsung Electronics Vietnam, LG Display, Sun Artisteric, Pearson (Singapore), Viettel, MB, AIDEM, NATV, PVN (including Ca Mau Fertilizer, Phu My Fertilizer, PV Oil...), EVN (Northern Power Corporation, Genco 1...), FPT, Habeco, and Vietchem.
- Regarding networking activities, HUST actively participates in multiple distinguished organizations and networks, including but not limited to UK-VNHEP, AOUTULE, ASEA-UNINET, GMSARN, DAAD, AUF, AUN/SEED-NET, CASE, JICA, among others. This active engagement serves the purpose of staying updated with the latest information

and strengthening collaborative ties, thereby contributing to the growth and development of the university's network. Simultaneously, these efforts play a pivotal role in promoting HUST's brand image and elevating its reputation. HUST's academic staff continues to secure a multitude of new international cooperation projects, accolades, and sponsorships from foreign governments and esteemed organizations. These entities include the Japanese Government, JICA, the US Agency for International Development (USAID), the Laser Pulse program (US), the US Army (US Army-AFOSR-US Navy), the British Council, the Global Challenge Research Fund (GCRF-UK), the Ashahi Glass Foundation, the Hitachi Global Foundation, and DAAD.

- In July 2022, the Alumni Network inaugurated BK Alumni House at the D2D building. This endeavor has been undertaken with the aim of fostering stronger connections among the university, its alumni community, and current students. Through this network, HUST has received invaluable support for various activities, including the series of events commemorating the 66<sup>th</sup> anniversary of HUST's establishment and the initiatives aimed at enhancing lecture halls, classrooms, and laboratories.

### Exploiting and developing two-way exchange programs, conferences, and seminars

- The schools within the university have been proactive in harnessing international student and lecturer exchange programs, characterized by their flexibility in terms of delivery mode (in-person, online, or hybrid). These programs have been established in collaboration with globally renowned institutions, offering our faculty and students valuable opportunities to update their knowledge and engage in knowledge exchange and experience sharing with international colleagues within the dynamic and modern global academic environment. Such programs prove exceptionally beneficial in nurturing the

development of their academic, research, and professional skills for the future.

- + Scholarships for international exchange students and staff in 2022 reached 8.5 billion VND, an increase of 133.5% compared to 2021.

+ There were 121 international students coming to study at HUST and 110 HUST students sent to exchange abroad. These are positive results compared to 2021 (only eight international students came, and 35 students were sent abroad), due to the impact of the Covid-19 epidemic;

- The 2022-2026 project of attracting foreign scholars to HUSTs serves as the foundation for the schools to draw esteemed scientists to work and contribute to improve the quality of education and research activities. Additionally, it contributes to fostering an international learning and working environment.
- In the situation that the Covid-19 epidemic is better controlled, HUST has organized 13 international seminars. Successful organization of seminars has helped the expansion of academic cooperation networks and played an important role in the internationalization process.

However, the obtaining permission for international conferences and seminars is delayed due to new government and MOET. Visa application procedures for ODA/KOICA/RELO project volunteers remain complex and involve overlapping responsibilities between ministries and sectors. The ongoing COVID-19 situation continues to pose several obstacles to faculty and student exchanges, despite improved conditions and reduced funding.









## 1. TOTAL REVENUE

Unit: Million dong

No.	Funding sources	2021	2022		Changes 2021-2022
			Amount	%	
1	Government Funding	48.328	34.302	2,41%	-29,02%
2	Grant for SAHEP (ODA)	318.043	342.749	24,05%	7,77%
3	Operating revenue	974.826	969.213	68,00%	-0,58%
3.1	Revenue from education and training	884.056	878.868	61,66%	-0,59%
a	Education and Training activities	846.312	846.359	59,38%	0,01%
b	Other fees and charges	8.551	4.890	0,34%	-42,81%
c	Contractual training services	4.134	5.731	0,40%	38,63%
d	Sponsorship activities	25.059	21.888	1,54%	-12,65%
3.2	Revenue from facilities utilization and services	90.275	89.777	6,30%	-0,55%
3.3	Other revenues	495	568	0,04%	14,75%
4	Research grants from local authorities and local funds	84.618	78.968	5,54%	-6,68%
	Total revenue	1.425.815	1.425.232	100%	-0,04%

## 2. OPERATING REVENUE

No.	Items	TPercentage/ total revenue (%)	Operating revenue 2022 (million VND)
1	Undergraduate Tuition Fees	53,45%	761.728
2	Other tuition fees and training service charges	6,68%	95.252
3	Sponsorship activities	1,54%	21.888
4	Facilities services	6,30%	89.777
5	Other activities	0,04%	568
	Total operating revenue	68%	969.213

## 3. OPERATING EXPENSES

Unit: Million dong

No.	Items	2021	2022	Changes 2021-2022
1	Manpower Expenses	596.411	610.554	2,37%
1.1	Staff and expert salary	564.223	578.769	2,58%
1.2	Salary reduction contributions	32.188	31.785	-1,25%
2	Learner support	45.878	72.749	58,57%
3	Facilities	77.982	69.028	-11,48%
4	Services	26.939	26.939	0%
5	Professional development	32.055	84.337	163,10%
6	Other expenses	19.792	27.549	39,19%
	Total Operating Expenses	799.057	891.156	11,53%

## 4. FUNDS

Unit: Million dong

Code	Funds	Beginning balance	Fund increase	Planned expenses	Actual expenses	Ending balance
353	Designated funds (scholarships, student support, support fund for disadvantaged students)					
	2021	99.261	87.341	186.602	28.592	158.010
	2022	158.810	113.724	272.534	73.422	199.112
	Changes 2021-2022	59,99%	30,21%	46,05%	156,79%	26,01%
431	Other funds (recognition, social welfare, operating activity development, performance-based income)					
	2021	389.822	481.149	870.971	341.994	528.977
	2022	528.977	525.195	1.054.172	403.268	650.905
	Changes 2021-2022	35,70%	9,15%	21,03%	17,92%	23,05%
	Total 2021	489.083	568.490	1.057.573	370.586	686.987
	Total 2022	687.787	638.919	1.326.706	476.690	850.017
	Changes 2021-2022	40,63%	12,39%	25,45%	28,63%	23,73%



## MEMBERS OF UNIVERSITY COUNCIL, BOARD OF PRESIDENCY

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Chairman of the Trade Union

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Vice Dean of School of  
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Vice Dean of School of Electrical  
and Electronic Engineering

**Assoc. Prof.  
Pho Thi Nguyen Hang**  
Senior Lecturer, School of  
Engineering Physics

**Assoc. Prof.  
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Dean of School of Economics  
and Management

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President of Students Association  
Member of the Standing Committee of  
Ho Chi Minh Communist Youth Union at HUST

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Former Minister of Ministry of Science and Technology  
President of HUST Alumni Association

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Material Corporation

## DEANS OF SCHOOLS

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Dean of School of Electrical  
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**Assoc. Prof. Chu Ky Son**  
Dean of School of Chemistry  
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(appointed since April 2023)



**Prof. Huynh Trung Hai**  
Dean of School of Materials  
Science and Engineering  
(appointed since April 2023)







### 1. SPONSORSHIP FOR INFRASTRUCTURE UPGRADES

No.	SPONSORS	AMOUNT (VND)
1	PetroVietnam Oil (PV Oil)	2,200,000,000
2	HD Telecom North America Company Ltd	1,740,670,800
3	Siemens Vietnam Ltd	1,000,000,000
4	PetroVietnam Fertilizer and Chemicals Corporation	1,000,000,000
5	Mitsubishi Electric Vietnam Ltd	700,000,000

### 2. SPONSORSHIP FOR RESEARCH AND POSTGRADUATE PROGRAMS

No.	SPONSORS	AMOUNT (VND)
1	Japan Government	40,000,000,000
2	VinGroup Innovation Fund (VinIF)	11,490,833,333
3	Vietnam Electricity - Power Generation Corporation 1 (EVNGENCO1)	4,966,291,000
4	Naver corporation	4,488,180,000
5	Sun Asterisk Vietnam Ltd	3,500,000,000
6	US Army	2,000,000,000
7	Samsung Display Vietnam	1,241,020,000
8	AUN/SEED-Net	437,000,000
9	Toyota Vietnam	404,000,000
10	Asahi Glass Foundation	360,000,000
11	Hitachi Systems Vietnam Ltd	300,000,000
12	Asean Vietnam International Jsc	50,000,000
13	Technology transfer group corporation	50,000,000
14	Vietsol Ltd	20,000,000

### 3. SPONSORSHIP FOR UNDERGRADUATE PROGRAMS AND LEARNER SUPPORT

No.	SPONSORS	AMOUNT (VND)
1	Aidem Inc	1,700,000,000
2	Erasmus+ Program, European Commission	1,598,744,860
3	Samsung Vietnam	1,302,000,000
4	Sekisho Vietnam Co., Ltd	1,200,000,000
5	Chap canh Foundation Social Company Co., Ltd	1,173,250,000
6	Nissan Automotive Technology Vietnam Co., Ltd	1,000,000,000
7	Mirae Asset Financial Group	750,000,000
8	Samsung Display Vietnam	740,000,000
9	HUREDEE - Human Resources Development & Employment Organization	550,000,000
10	VNPETRO Jsc	500,000,000
11	Mitsubishi Electric Vietnam Co., Ltd	380,550,000
12	Shiga province, Japan	296,100,000
13	Nitori Furniture Vietnam EPE	280,000,000
14	Anabuki College Service Jsc	258,000,000
15	The International Nuclear Energy Development of Japan Co., Ltd	250,000,000
16	Posco Vietnam Co., Ltd	246,000,000
17	Honda Vietnam Co., Ltd	230,000,000
18	Shopee Co., Ltd	205,000,000
19	Lotte Vietnam Co., Ltd	190,640,000
20	Acecook Vietnam Jsc	172,500,000
21	Persol HT Partners Company	160,000,000
22	Viettel Group	150,000,000
23	IHI Corporation	138,240,000
24	Military Bank	130,000,000
25	TNG Investment and Trading Jsc	128,030,000
26	AUF	104,000,000
27	Nghi Son Refinery and Petrochemical Co. Ltd	100,000,000
28	FPT Corporation	100,000,000
29	Hanoi Beer Alcohol and Beverage Jsc	100,000,000
30	Hoa Phat Group	100,000,000
31	Vietnam Steep Corporation	100,000,000



32	Vietnam Electricity - Power Generation Corporation 1 (EVNGENCO1)	80,000,000
33	A Chau Industrial Technology Jsc	50,000,000
34	Northern Electrical Testing one member Co., Ltd	50,000,000
35	Hop Long Co., Ltd	50,000,000
36	Samkwang Vina Co., Ltd	50,000,000
37	FPT Software	50,000,000
38	Infineon Technologies: Semiconductor & System Solutions	50,000,000
39	Viettel High Technology industries corporation - Branch of Viettel Group	50,000,000
40	Vietnam Steel Association	50,000,000
41	Toyota Vietnam	48,000,000
42	HAAS Industry Vietnam Co., Ltd	40,000,000
43	EPI Vietnam Technologies Co., Ltd	40,000,000
44	Qorvo Vietnam Co., Ltd	40,000,000
45	Hoan My Co., Ltd	39,800,000
46	CoAsia Semi Vietnam Co., Ltd	30,000,000
47	Vinausteel Co., Ltd	30,000,000
48	Hanes Brand Co., Ltd	30,000,000
49	TCE Vina Denim Jsc	30,000,000
50	Toshiba transmission & distribution systems Vietnam Co., Ltd	25,000,000
51	Pearl Global Vietnam	25,000,000
52	One Mount Group Jsc	20,000,000
53	Futech Technology Jsc	20,000,000
54	Dolphin Technology Vietnam Center Co., Ltd	20,000,000
55	Avepoint Vietnam Co., Ltd	20,000,000
56	DICOM Technologies Co., Ltd	20,000,000
57	International Information Technology Solutions Jsc	20,000,000
58	The Eastern Medical Equipment Co., Ltd	20,000,000
59	Seni Art Company	20,000,000
60	Yinlong Technologies Co., Ltd	15,000,000
61	Fumee Tech Jsc	10,000,000
62	FPT Information System Corporation	10,000,000
63	FPT Telecom	10,000,000

#### 4. FACILITIES, PRODUCTS, AND SERVICES SPONSORSHIP

No.	SPONSORS	FACILITIES, PRODUCTS AND SERVICES
1	AVL Co., Ltd	CRUISE M softwares (90.000 EUR)
2	Sun Asterisk Vietnam Ltd	240 million dong
3	VNG Jsc	100 million dong
4	Base Enterprise Jsc	50 million dong
5	Misa Jsc	50 million dong
6	FPT Software Co., Ltd	50 million dong
7	Ford Vietnam Co., Ltd	Ford Ecosport car
8	VNPETRO	Research equipments
9	Weldcom Technology Jsc	100 million dong and 600 workwears
10	ABB Corporation	39 million dong; Robot Studio simulation software for 1 service and 100 clients
11	Song Da Energy Electrical Jsc	- 02 sets of inverter - Power meter for 3 phase inverter
12	EVSELab Co., Ltd	- OWON SDS1102 Digital Oscilloscope (100Mhz, 2CH) - Smart welding machine QUICK 969B+ (70W, 100 - 480 degrees Celsius, LED) - HIOKI CT6500 . AC series clamps - UNI-T UTG962E Pulse Generator (60MHZ, 2 channels, 200MS/s) - DC UNI-T UTP3303 adjustable DC power (0-32V/3A) - QUICK 2020 + welding torch machine (750W, 100-500 degrees Celsius) - ElectWay charging station 7KW - PLC communication experiment module - Samsung Inverter refrigerator 208 liters RT19M300BGS/SV - MC-EG3000 . water heater - Electrolux ECM1303W . coffee maker - BenQ MS550 . Projector - Brother MFC-L2701DW . Printer - Lenovo ThinkVision monitor
13	Kyocera Document Technology Vietnam Co., Ltd	- Multifunction black and white laser printer (1 pc) - Replacement Toner Cartridges (20)
14	Mitsubishi Electric Vietnam	- Industrial manipulator - Device Drivers - Operating software
15	Smart Cobot Jsc	- Camera - Lighting (dome light, bar light, area, ...) - Electric Box - Control devices (PLC, CC320, ...) - Copyrighted adative software



16 Movetia (Switzerland)

6 scholarships for the course  
"Interdisciplinary, intercultural  
exchange and capacity building in  
the circular economy" in Chiangmai,  
Thailand worth 120 million

17 Maxdream Jsc

01 Water purifier





# HUST

**INNOVATION – DIGITAL TRANSFORMATION  
– GREEN TRANSFORMATION**



**HANOI UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

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