



Academic Year 2021-2022

ANNUAL REPORT



VINUNIVERSITY

“To reap a return in ten years, plant trees. To reap a return in 100, cultivate the people.”

- Ho Chi Minh

Contents

President's Message	4
Provost's Message	5
Strategic Collaborations	10
Diversity Statistics	12
Dean's & President's List	13
Key Achievements	16
Admissions	17
CBM	18
CECS	24
CHS	34
FAS	40
Research Activities	46
Entrepreneurship Lab	48
Teaching & Learning	50
Student Experience	52
Library & Learning Resources	59
External Engagement	60

About Us



VinUniversity (VinUni) is an excellent, private, not-for-profit university established by Vingroup. VinUni aspires to develop talents for the future, to make a breakthrough in Vietnam higher education and to become a world-class university.

With the goal of becoming one of the top 50 young universities in the world, VinUni has built strategic partnership with two of the world's top 20 Universities, namely Cornell University and the University of Pennsylvania.

Established on the highest standards of research, teaching, career development and international outlook, within the first year, VinUniversity was awarded Quacquarelli Symonds (QS) 5 stars rating for three aspects: Facilities, Academic Development and Inclusiveness. The institution also signs collaboration agreements to offer integrated dual-degree with universities leading in computer science, technology, business management and health sciences.

VinUniversity's inauguration ceremony was held on its campus located at Vinhomes Ocean Park, Gia Lam, Hanoi, with a total investment of VND 6,500 billion (approximately USD 285 million) from Vingroup.

The institution comprises of Faculty of Arts and Sciences; College of Business and Management; College of Engineering and Computer Science; and College of Health Sciences. It currently offers **12 degree programs**, including two newly launched post-graduate programs, namely:

- ▶ Bachelor of Business Administration; Bachelor of Science in Hospitality Management
- ▶ Bachelor of Science in Mechanical Engineering; Bachelor of Science in Electrical Engineering; Bachelor of Science in Computer Science; Master of Innovation in Artificial Intelligence; Doctor of Philosophy in Computational Data Science
- ▶ Bachelor of Nursing; Medical Doctor Program; Internal Medicine Residency Program; General Surgery Residency Program; Pediatrics Residency Program



Founding Donor

VinUniversity was founded by Vingroup Joint Stock Company (Vingroup JSC) as a private, not-for-profit university for the purpose of fostering and developing talents for the future.

Vingroup, formerly known as Technocom Corporation, was founded in 1993 in Ukraine. In the early 2000s, Vingroup started in Vietnam with two key brands: Vincom and Vinpearl. In January 2012, Vinpearl JSC merged with Vincom JSC to form Vingroup Joint Stock Company.

Vingroup is one of the biggest private conglomerates in Asia with a market capitalization value of around US \$16 billion. As a multisector corporation, Vingroup focuses on three main areas:

- ▶ Technology;
- ▶ Industrials;
- ▶ Property Services.

Vingroup continues to pioneer and lead consumer trends in each of its businesses, introducing Vietnamese consumers to a brand new, modern lifestyle with international-standard products and services. Vingroup has created a respected, well-recognized Vietnamese brand and is proud to be one of the nation's leading private enterprises.

VinUniversity is proud to be a part of the Vingroup ecosystem, giving our students opportunities to connect with several reputable research institutes (such as VinAI, VinBrain, and Vin BigData), pioneering industrial enterprises (such as VinFast), and leading Vietnamese companies (such as Vinpearl, Vincom Retail, Vinmec, and Vinhomes).



Excellence is the reason why we exist.

- Le Mai Lan, PhD
President, VinUniversity



Distinguishing Factors at VinUniversity



Community of Talent

VinUniversity is very proud of its community of talented individuals. All the students in the second cohorts were among Vietnam's top 2.5%, with an average SAT score of 1,453, the top 4% in the world. 1 in 5 students attained awards in national, international Olympiad and other prestigious competitions.



Academic Programs of Excellence

The entire curriculum, from design to quality validation, is supported by Cornell University and the University of Pennsylvania.



Globally Distinguished Faculty

With the current student-to-faculty ratios at VinUniversity being 7:1, students have the chance to participate in research and write scientific publications for prestigious journals alongside their highly qualified "captains", who possess in-depth work and research experience at leading universities around the globe.



World-class Standards

Every aspect of the University: its curricula, research, faculty, student body, facilities, and campus life, is being developed to meet the highest standards set by the world's leading accrediting and ranking organizations, such as ABET, AACSB, Quacquarelli Symonds (QS) and Times Higher Education (THE). VinUniversity was granted QS 5-star standard certificate in three key areas: Facilities, Academic Development and Inclusiveness, immediately preceding the First Convocation.



Impressive First-Year Experience

OASIS program (Orientation, Advising, Study Skills, Intercultural Awareness and Self-exploration & Growth) is designed to transform a young high school student into a college student who is mature, proud, confident, independent, and capable of independent learning and self-control.



Sequential Bachelor's-Master's degree programs

VinUniversity has successfully reached cooperation agreements on the integrated Bachelor's - Master's program with leading global universities, giving students the opportunity to obtain Master's Degrees faster from:

- ▶ University of Pennsylvania, USA (ranked #13, #1 in Nursing globally, 2022);
- ▶ Cornell University, USA (ranked #22 globally, 2022);
- ▶ University of California, San Diego, USA (ranked #34 globally, 2022);
- ▶ University of Illinois at Urbana-Champaign, USA (ranked #48 globally, 2022);
- ▶ University of Technology Sydney, Australia (ranked #8 among young universities globally, 2022).
- ▶ University of Queensland, Australia (ranked #54 globally, 2021)



Bridging the Gaps between Academic and Industry

Besides equipping students with academic knowledge, VinUniversity has developed special learning and practical programs to prepare graduates for real-life challenges, with hands-on learning and real-world experience:

- ▶ The Entrepreneur Lab helps develop students' start-up ideas, and provides them the opportunities to interact with and learn from renowned experts and entrepreneurs.
- ▶ Industry Mentorship Program where students are paired with an advisor to learn from their experience and get to know the particular industry sector.
- ▶ Summer Internship enables students to challenge themselves at more than 10 companies in the fields of finance, hospitality, technology, industry, start-ups, and so on.



Research for Humanity

In 2021, 80 scientific papers by VinUniversity faculty have been published in prestigious academic journals. VinUniversity has attracted six eminent professors in the Top 2% of the world's most cited scholars, including our Provost, Vice Provost, Dean of College of Engineering & Computer Science and Dean of College of Health Sciences according to the latest publication of PLOS Biology Journal (USA) in 2020. VinUniversity also funds its faculty's research projects in the form of "seed funding" to solve contemporary issues, positively impacting society.



Strategic Collaborations



VinGroup-Penn Collaboration

University of Pennsylvania (Penn) has entered a formal agreement with VinGroup, the Founding Benefactor of VinUniversity, to commit to excellence in clinical care and education, improve health care, and create new undergraduate and graduate medical training programs in Vietnam. Penn has provided tremendous support in establishing the College of Health Sciences at VinUniversity. Together, Penn Medicine and Penn Nursing are developing the undergraduate curriculum and aligning faculty and institutional support structures to establish high caliber educational and training programs.

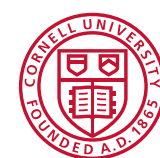


With the same desire for excellence in education, research and healthcare, Penn fully agrees with VinGroup that the results of these efforts will contribute to making fundamental changes in the quality of medical and nursing education, thus positively affecting the health of Vietnamese people in the short and long term.

- Glen Gaulton, PhD
Vice President and Director
of Penn Global Health Center

Key Outcomes

- ▶ Develop and advance health curricula and training for the future with a focus on team skills, integrative thinking, and evidence-based practice
- ▶ Define and further culturally competent standards through quality assessment and certification/recertification
- ▶ Create opportunities for global training and experiences for both Penn and VinUniversity students
- ▶ Achieve shared and ongoing excellence with the prospect of breakthroughs
- ▶ Establish the Vinmec/VinUniversity/Penn model for shared values in education, quality health care, and service to humanity



Cornell University

Cornell-VinUniversity Collaboration

Cornell University's primary role is to build VinUni's faculty and academic leadership teams; to validate and assure the quality of the curricula developed by VinUniversity faculty; and to guide VinUniversity on a path towards international accreditations. Cornell faculty members provide advice to lay the foundation to position VinUniversity as a world-class teaching and research university in accordance with QS 5-star rating standards.

Since the beginning, Cornell University has been involved in every aspect of VinUniversity's development including infrastructure, governance, faculty, admissions, and curriculum development. The Cornell-VinUniversity Project Team has provided support in founding VinUniversity with the participation of 200 faculty and staff, who have flown 687,000 miles on 40 trips to reach Vietnam. To strengthen their commitment, Cornell approved a multi-year leave for Professor Rohit Verma (Dean of External Relations, Cornell SC Johnson College of Business and Singapore Tourism Board Distinguished Professor), to assume the responsibility of Founding Provost of VinUniversity.



Following the strategic cooperation between the two universities, in August 2020, Cornell University and VinUniversity signed an agreement on the student exchange program. This program allows Cornell students to spend their time at VinUniversity as exchange students starting from the 2021 spring semester. An equal number of VinUniversity students have the opportunity to study at Cornell University for the same duration. Students participating in the program will have their academic qualifications and study periods abroad recognized by both universities. This will also set the path for VinUniversity to discuss new projects, including dual degrees in both universities, with Cornell as well as other prestigious international universities.



Diversity Statistics

Non-Discrimination Statement

VinUniversity considers students, faculty, employees, and applicants on the basis of individual merit. Our organization does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law.

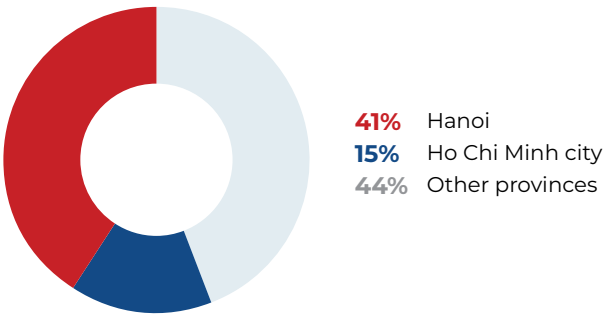


There are 19 nationalities presented at VinUniversity.

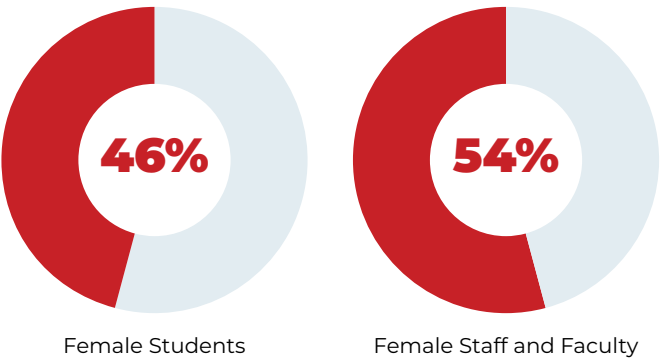
- | | | |
|----------------|----------------|-----------------|
| 1. Vietnam | 8. Philippines | 15. Malaysia |
| 2. South Korea | 9. Russia | 16. UK |
| 3. USA | 10. Libya | 17. India |
| 4. Germany | 11. Kazakhstan | 18. New Zealand |
| 5. Japan | 12. Australia | 19. Hong Kong |
| 6. Ghana | 13. Canada | |
| 7. Czech | 14. Singapore | |

We are welcoming more and more international students, faculty and staff in the coming academic year 2022-23. Our diversity has created a multicultural, colourful international environment at VinUniversity - where each individual is respected, and all are working towards a common goal – EXCEL 2gether!

2021-22 Cohort Geographical Diversity



Gender Diversity



Key Achievements



1 Ensuring the quality of student intakes

In 2021, VinUni was home to 468 outstanding students **from 11 countries** with the average SAT scores in the top 4% globally, winning various prestigious national and international awards.



2 Encouraging active learning and teaching methods

VinUniversity **plays a leading role in encouraging active learning and teaching methods** in the Vietnamese higher education system, through the inaugural Teaching & Learning Summit with the participation of nearly 400 educational leaders in Vietnam and around the world.



3 Entering cooperation agreements with prestigious universities around the world

At the end of the academic year 2021 - 2022, VinUniversity reached agreements with 12 prestigious universities for **exchange programs**, with a total of 60 spots for students without additional costs. We also signed cooperation agreements with 7 leading universities on **dual degree programs**, including Bachelor's – Bachelor's, Bachelor's – Master's and Master's – Doctoral programs.



4 Individual development plans for students

Individual development plans have been made mandatory for students, as they construct and implement their own goals and objectives for each year, forming an essential component of personalized training.



5 Spreading the entrepreneurship spirit

The startup ecosystem and entrepreneurial mindset at VinUniversity have begun to bloom, creating a healthy competition for all to join. Students have managed to raise \$US 100,000 from foreign funding foundations, and many other projects were incubated.



6 Organizing the VinUniversity's First Career Day

The first-ever 2022 Career Day **attracted the participation of 30 businesses and organizations** from 10 different sectors, namely EY, KPMG, Toyota, Corning, AON, Salesforce, SSI, ACB, Viettel, FPT, with leading companies in the Vingroup ecosystem - Vinfast, Vinhomes, Vinmec, and VinAI. They were impressed by the talent, confidence, dedication and passion that VinUniversity's students possessed.



7 Launching Doctoral Program in Computer Science

VinUniversity officially launches a Doctoral Program in Computer Science, with the goal of promoting cutting-edge research and training highly qualified experts and researchers for **high-impact projects**.



8 Establishing the VinUni-Illinois Smart Health Center

The establishment of the VinUni-Illinois Smart Health Center (VISHC) has attracted the participation and dedication of distinguished scientists from both universities to corporate, for the mission of **providing widely accessible health monitoring, screening, and diagnostics** for people all over the world. So far, VISHC has provided promising results from its research projects.

9



Promoting undergraduate research

The undergraduate research program is widely implemented at VinUniversity. Many freshmen and sophomores have engaged in independent research under the guidance of faculty members, **having their own works published** in prestigious science and technology journals, as well as participated in corporate-funded research projects.

10



Top five piloting life-long learning universities recognized by MOET

VinUniversity was recognized by the Ministry of Education and Training as one of the most successful universities for the implementation of active and life-long learning programs. We have launched the **"Self-study to be your best self"** program as a way to promote self-research and self-learning for personal improvements among all members of the university.



Admissions



The Admission Team is always looking for outstanding students who possess the potential to become future leaders, changemakers, experts, and innovators. The admission process of VinUniversity is multi-faceted and holistic. We admit students who not only achieve excellent academic results and think outside of the box but also have the strong desire to solve real-world problems and make a positive impact on society.

- **Nguyen Hoai Anh**
Head of Student Admissions - Marketing - Communications

We do not only look at the students' academic achievements, extracurricular activities, but also conduct interview to have a better understanding of their aspirations, interpersonal skills, hobbies. At the same time, the candidates also have the opportunity to interact face-to-face with our professors and faculty.

VinUniversity has designed a unique admission process to select talented students with four AACC criteria: Outstanding Ability; Aspiration; Commitment; Creativity.

Our Students' Profile

	From
260	11
Students	Countries
239 Undergraduate students and 21 Graduate students	

1 in 5
National/ International Olympics & other competitions

9.0
Students' average high school GPA

37%
Students with Scholarships
90% scholarship, 100% scholarship, and Full scholarship

63%
Students with Vingroup Subsidy and Financial Aid
From 35% - 50% - 60% - 70% - 80% tuition fee

7.5
Average IELTS scores

1445+
Average SAT scores, in the top 4% of the world

"My experience at VinUniversity has been extraordinary. Surrounded by so many passionate, talented, and caring people, I am constantly inspired by new ideas, viewpoints, and experiences, which ultimately helps me grow a lot as a person. My professors and teaching assistants truly have a knack for explaining difficult concepts in a clear and simple manner, which facilitates my learning. That said, my favorite memories at VinUniversity actually come from outside the classroom. For example, our trip to a local hospital not only allowed me to see the intricacies of Vietnam's healthcare system firsthand, but it also taught me about professionalism, compassion, and resilience in the face of challenges."

- **Nguyen Minh Khoi**
90% scholarship recipient, CHS Class of 2025

"Choosing to study at VinUni is one of my best decisions. I have known a lot of friends here from various backgrounds with the same interests, and we have gathered a group of friends to found a project together. The diverse backgrounds from different regions and countries at VinUni matter the most when doing a project together, as we could ask for different perspectives. One thing that I am amazed when at VinUni is how supportive our professors and staff are. When doing our project, not only they are willing to help us but they connect us with appropriate resources. It is because our university's top priority is to help our students grow."

- **Tran Tuan Minh**
90% scholarship recipient, CBM, Class of 2025

College of Business & Management

DEAN’S MESSAGE

Greetings!

I am delighted to share with you the accomplishment of the College of Business and Management during the second academic year of 2021-2022. As I reflect upon this year, I am filled with a deep sense of awe and admiration for every member of our college, particularly with their strength and compassion to overcome the challenges caused by the global pandemic.

The three words that can best describe the second academic year of 2021-2022 for the College of Business and Management are **growth**, **resilience**, and continuing pursuit of **excellence**.



GROWTH

The number of students doubled. The size of faculty tripled. The size of staff tripled. The number of courses offered grew from 4 to 28. The number of in-semester internship opportunities, domestic and global companies, grew from 4 to 15.

RESILIENCE

Unlike the first academic year when we enjoyed face-to-face classes despite COVID, we had to run the whole college online most of the time during the second year. Despite many challenges imposed by this circumstances, faculty, students, and staff embraced the challenges, exercised creativity and agility, and exerted extra efforts to make everything work. Through which a truly strong college team was created, I am very proud of the all members of the team including our students!

EXCELLENCE

Based on our first-year experience of running a college, we enhanced existing curriculum and programs. We introduced a total of 7 major concentration fields and 3 minor concentration fields. We introduced a sophomore advising program for our first-ever sophomores. We expanded our global partner network and signed or are about to sign agreements for double degree programs with three globally leading universities. We expanded and deepened relationships with industry partners, not only domestic but also international.

I was delighted to witness the transformation of potentials into realities. It was through the hard and well-orchestrated work by everyone at the college, with the support from diverse university teams. I am truly excited about many other remaining potentials to become realities soon in the future. Hence, I sincerely thank and cheer every member of the team at the College of Business and Management.

Sunmee Choi, Ph.D.

Founding Dean, College of Business & Management

UNDERGRADUATE PROGRAMS

In the Academic year 2021-22, we offered a total of 28 academic courses, 2 of which was university-wide. The highlighted course is Agile Innovation, a brand-new mandatory course for all students that is taught only at a few prestigious universities. Tasked to paint their life’s turning point, students were challenged to transform their thinking process to become more intuitive and innovative. Leadership Development is another highlighted course, which was required for all freshmen to help them to better prepare themselves as future leaders in the global community. Learning took place through action-based team activities, including computer-based simulation games. Another noteworthy course is Restaurant management where students have the chance to do practicum at restaurants at Almaz and had hand-on experiences that only few universities offers.

Courses taught:

FALL 2021 SEMESTER

No.	Curriculum Components	Course Title
1	GenED Core	Agile Innovation
2	College Core Requirement	Introduction to Business Statistics
3		Financial Accounting
4		Introductory Microeconomics
5		Marketing
6		Business Statistics
7		Business Mathematics
8	BBA Discipline Core Requirement	Spreadsheet Modeling for Business
9	BHSM Discipline Requirement	Foodservice management
10		Hotel Operations 1
11		Revenue management
12	College elective	Undergraduate Research in Business Management

SPRING 2022 SEMESTER

No.	Curriculum Components	Course Title
1	GenED Core	Leadership Development
2	College Core Requirement	Computational & algorithmic thinking
3		Financial accounting
4		Introductory Macroeconomics
5		Managerial accounting
6		Corporate Finance
7		Business communication skills
8		Introductory Macroeconomics
9		Restaurant management
10	Concentration Requirement	Business Analytics Concentration course 1 - Database concepts & skills for big data
11		Accounting/Finance concentration course 1 - Financial Statement Analysis
12		Entrepreneurship concentration course 1 - Social Entrepreneurship
13		Marketing concentration course 1 - Marketing Research
14		Marketing concentration course 2 - Retail Strategy
15	College elective	Introduction to Wines of the world
16	Internship	Internship Orientation

Bachelor of Business Administration (BBA)

Currently the program has 131 students. The overall aim is to provide students with the best education – the right knowledge, skills, expertise, and experiences so that upon graduation they can attain meaningful careers with accelerated advancement opportunities. The mission of the BBA Program is to provide undergraduate students with a well-rounded quality English-based business education to become competent business professionals, leaders and entrepreneurs with integrity who are critical thinkers and aspire to move Vietnam to a respectable position in the world.

Bachelor of Science in Hospitality Management (BSHM)

Validated by the Cornell University, this programme gives students a balanced combination of hospitality skills and professional experience, academic rigour and business expertise, and an entrepreneurial mindset to transform the hospitality industry. Currently, 28 students are challenged and inspired by our distinguished faculty and leading global industry practitioners to think outside their comfort zone to stretch the limits of their imagination. Within the 2021-22 academic year, exciting events such as the series of workshops under the theme of “Living the Hospitality Spirit” were organized to allow students develop the perfect balance of hospitality know-how and soft skills.



Student Achievements

- ▶ 45% of Students got a GPA of 3.60 and above and 34% of Students got a GPA of 3.20 to 3.59.
- ▶ ICAEW China & South-East Asia Business Challenge 2022: Second prize: Tran Diem Quynh
- ▶ Go Green Vietnam Competition 2022: First prize: Nguyen Mai Phuong, Ha Phuong Thao
- ▶ Annual Worldwide Case Competition (WACC 2021): Bronze medal: Thai Thi Phuong Nga, Giap Vu Nam Duong, Phan Hai Dang, Hoang Khanh Linh, Nguyen Phuong Hoa, Nguyen Khanh Linh
- ▶ Listed as one of the co-authors in SCOPUS and ESCI listed international journal

International Academic Partnerships

This year, we successfully signed an agreement on academic partnerships with 05 additional prestigious universities on students exchange program.

Name of University	Country	Date of signing
University of Technology Sydney	Australia	29-07-21
University of Toronto	Canada	28-03-22
Hong Kong University of Science and Technology	Hong Kong	15-03-22
Nyenrode Business Universiteit	Netherlands	26-01-22
Seoul National University	South Korea	26-08-21

Dean Choi's Grant by Soosan

We are aiming to deliver world class education to all students of various financial backgrounds. With the support from Soosan Group, a South Korean company, a generous grant in honor of Dean Sunmee Choi will be given to up to 5 students per academic year. Each selected student will receive an amount of \$USD 3,500 each year for up to 8 semesters.

STUDENT INDUSTRY ENGAGEMENT PROGRAM (CAREER DEVELOPMENT)

Industry Mentorship Program

CBM is committed to expanding students' exposure to professional networks and giving them opportunities to expand perspectives and learn directly from experts. Distinguished professionals will give students advice on how to break into a particular industry to help students best prepare to transition from university life to the professional world.

- ▶ 40 Mentors and 119 Mentees
- ▶ Mentors from Coca Cola, FPT Digital, Woori Bank, EY, P&G, VinHMS, Shangri-la group, CPA Australia, FLC Group, One Arrow Consulting Group, One Mount Group, KPMG, etc.

Industry Speaker Series

This series of events brings leaders and experts from various fields to VinUniversity and allows them to share their own experiences and professional development journey with students. We welcomed 4 notable speakers in the academic year 2021-22:

- ▶ **Tammy Phan** – Country Head of Marketing (Vietnam), Google
- ▶ **Andrea Lomas-Gong** – Head of Group Spa Operations, Mandarin Oriental
- ▶ **Andrew Kim** – General Manager at Pan Pacific Hanoi
- ▶ **Denis Brunetti** – President of Ericsson Vietnam, Myanmar, Cambodia & Laos



Start-Up Internship Program

This program is designed to support students in establishing an entrepreneurship mindset, honing their essential soft skills and providing them with practical experience. The internship is expected to be organized in July and August at the startup or venture capital companies. The worksite supervisor/mentor will provide guidance and advice for students to develop learning goals and accomplish program objectives. In the academic year 2021-22, we are privileged to work with Do Ventures and Nextrans to deliver this program. Specifically, students will have an opportunity to work in these portfolio companies:

- ▶ Metub, MindX, Eway, Selly, TopCV

5in5 Internship Program

This uniquely designed program offers students a chance to work at VinUniversity's partner companies for a minimum of 40 hours over 5 weeks (5 days in 5 weeks). From the very first day, students are assigned to teams in order to work on a specific case study. Constant rotation between different departments during these 5 weeks aims to provide students with a multi-disciplinary and multi-perspective understanding and assessment of the company. 84 BBA students and 23 BSHM students joined this program.

This opportunity was offered by 15 partner companies which include:

- ▶ Vinschool, Vinhomes, Intercontinental Hanoi Westlake, Intercontinental Landmark 72, Sheraton, Viettel Digital, Vinmec, Fraser Suites, Vinpearl, EY, VinHMS, JW Marriott, Woori Bank, FPT Telecom

Summer Internship Program

At CBM, we allow students to apply their talents and skills right from the first year of study. As such, this year we have collaborated with different companies such as:

- ▶ Hyatt Regency, Vinmec, Viettel Digital, Vincom Retail, Vinpearl, VinHMS, EY, FPT Telecom

The summer internship offers students opportunities to apply theoretical knowledge to a real-world work environment and know more about companies that students may be interested in joining after graduation. The combination of education and experience gained through well-designed internships will allow students to enter the job market ready to compete and contribute.

Company Visits

These activities are parts of students’ career self-exploration and growth program which aims to provide students with industry insights and professional networks. Students can learn through exposing themselves to diverse working methods, having deep conversations with industrial leaders. Especially, we have many meetings and visits with top hotel management companies. In this academic year 2021-22, we had 3 company visits to:

- ▶ Pan Pacific Hanoi, Capella Hanoi, LG Display Hai Phong

RESEARCH HIGHLIGHTS

This academic year, the number of publications from CBM has significantly increased in both quantity and quality. Five(5) papers are published in Q1 or Q2 journals.

- ▶ 9 Papers
- ▶ 9 Book chapters

Artificial Intelligence (AI) and the New Age of Marketing Management, New York: Routledge Taylor & Francis, In Sara Thaichon and Park Thaichon (Eds.) - 03 chapters by Assistant Professor (Jenny) Dung Le and Assistant Professor Kyunghwa Chung:

1. Chapter 1: Introduction to Artificial Intelligence (AI): Definition and scope of AI.
2. Chapter 2: Types of Artificial Intelligence (AI) in marketing management.
3. Chapter 3: A framework of Artificial Intelligence (AI) applications in marketing.

Published Papers:

- ▶ Design thinking for social innovation: Secrets to success for tourism social entrepreneurs – by Dr. Giang Phi, Assistant Professor on Journal of Hospitality and Tourism Management (Q1)
- ▶ Integrating Chaotic Perspective and Behavioral Learning Theory into a Global Pandemic Crisis Management Framework for Hotel Service Providers - by Dr. Giang Phi, Assistant Professor and her team on Service Science (Q1)
- ▶ The impact of interest rate policy on credit union lending during a crisis period – by Dr. Nguyen Thi Mai Lan (Alex) on Finance Research Letters (Q1)
- ▶ The heterogeneous impact of work specialization on analyst performance – by Dr. Nguyen Thi Mai Lan (Alex) on Advances in Accounting (Q2)
- ▶ The impact of interest rate policy on credit union lending during a crisis period – by Dr. Nguyen Thi Mai Lan (Alex) on Finance Research Letters (Q1)
- ▶ Youngone’s Sustainable Growth: from Manufacturing to Retailing through Business Diversification – by Dr. Kyunghwa Chung, Assistant Professor on Asian Case Research Journal (SCOPUS and ESCI listed international journal)
- ▶ Market Reaction to the Announcements of Free Trade Agreements: Evidence from Vietnam - by Dr. Nguyen Thi Mai Lan (Alex), Nguyen, T.T.P. (2022) on Forum for Social Economics (Q3), February, pp. 1-17
- ▶ Cash holding and financial stability during a crisis: A case study of Vietnamese firms in Covid-19 pandemic - by Nguyen, C.K., Nguyen, A.Q., Nguyen, N.Q., Nguyen,

T.T.M., Chu, A.N., Nguyen, L.T.M. (2021) on Forum for Social Economics (Q3), June, pp1-14.

- ▶ What explains penny stocks’ seasoned equity offerings? by Nguyen, L.T.M. and Jaroenjitrkam, A. (2021) on Academy of Accounting and Financial Studies Journal (Q4), 25, pp. 1-16.

Book chapters

- ▶ Vietnam Tourism: Policies and Practice (CABI Publisher) – 6 chapters by Dr. Giang Phi, Assistant Professor as below:
- ▶ Chapter 1: Vietnam Tourism – A View from Within. Huong T. Bui and Giang T. Phi.
- ▶ Chapter 4: Tourism Planning in the Central Highlands. Thuy T. Duong, Tuan Q. Pham, Hai Q. Truong, Huong T. Bui, and Giang T. Phi
- ▶ Chapter 5: Marine and Island Tourism. Huong H. Do and Giang T. Phi.
- ▶ Chapter 7: Community-based Tourism: Challenges and Opportunities for Sustainable Development. Giang T. Phi and Long H. Pham
- ▶ Chapter 10: Tour Operators: A Behavioral Approach to Implementation of Responsible Tourism. Quynh N. Bui, Giang T. Phi, and Andrew Le.
- ▶ Chapter 12: Policies and Stakeholder Engagement in Cultural Events. Phuong-Anh Dang, Le-Anh Trinh, Giang T. Phi, and Huong T. Bui.

Ongoing Research:

- ▶ Bank culture and stability - by Dr. Nguyen Thi Mai Lan (Alex) with H.N. Luu, L.Q. Nguyen, and T.M. Nguyen - Revise and resubmit to Review of Quantitative Finance and Accounting (Q1)
- ▶ Shareholder Litigation Rights and Bank Dividends - by Dr. Nguyen Thi Mai Lan (Alex) with H.N. Luu, D. Nguyen, and A.T. Nguyen - Revise and resubmit to Journal of Financial Services Research (Q1)
- ▶ Brokerage Closures, Job Losses and Analyst Forecast Pessimism - by Dr. Nguyen Thi Mai Lan (Alex) with C. Cheong and R. Zurbruegg - Revise and resubmit to European Accounting Review (Q1)
- ▶ Institutional ownership and Media sentiments - by Dr. Nguyen Thi Mai Lan (Alex) with Dr. Jun Myung Song – Under second round review by Journal of Behavioral Finance (Q2)
- ▶ A global investigation of capital structure management and financial stability of hotel firms - by Dr. Nguyen Thi Mai Lan (Alex) with J. Le, T.K. Tran, K.T. Vu - Revise and resubmit to International Journal of Hospitality Management (Q1)
- ▶ Do analysts herd after an employment change? - by Dr. Nguyen Thi Mai Lan (Alex) with C. Cheong and R. Zurbruegg - Submitted to Journal of Empirical Finance (Q1)
- ▶ Family ownership and Capital structure: Evidence from ASEAN countries - by Dr. Nguyen Thi Mai Lan (Alex) with T.K. Tran - Submitted to Journal of Family Business Management (Q1)
- ▶ Family ownership and speed of adjustment: Evidence from ASEAN countries - by Dr. Nguyen Thi Mai Lan (Alex) with T.K. Tran - Submitted to Family Business Review (Q1)
- ▶ Helping Hand or Grabbing Hand? The Impact of Government Recentralization Reform on Corporate Investment – by Dr. Nguyen Thi Mai Lan (Alex) with H.N. Luu, A.T. Nguyen, and T.M. Nguyen - First draft completed– Intend to submit to the Journal of Corporate Finance (Q1)
- ▶ Improving hotels’ operational efficiency through implementation of ESG criteria: a risk management perspective - by Dr. Nguyen Thi Mai Lan (Alex) with Dr. Jenny Chung, D. Nguyen, and H.N. Luu - Finalization – Intend to submit to Cornell Quarterly Hospitality (Q1)
- ▶ Do Depositors Care about Shareholder Litigation Risk? Empirical Evidence from a Quasi-Natural Experiment - by Dr. Nguyen Thi Mai Lan (Alex) with H.N. Luu - Data analyses – Intend to submit to the Journal of Financial Stability (Q1)
- ▶ Political Relations and Media Coverage – by Dr. Jun Myung Song - Intend to submit to Q1 journal
- ▶ Cracking the Glass Ceiling: South Korea - by Dr. Jun Myung Song (review and resubmit at Pacific Basin Finance Journal - Q1)
- ▶ Who Helps Who? The Role of Stigma Dimensions in Harassment Intervention - by Dr. Jin Suk Park, Assistant Professor - Submitted to Journal of Business Ethics (Q1)
- ▶ Being a Boss’ Pet or a Colleagues’ Heather: Empirical Test of Nuanced Differences in Organizational Identification and Affective Commitment - by Dr. Jin Suk Park, Assistant Professor - Submitted to Behavioral Sciences (Q1)
- ▶ Learn and Run?: A Paradox of Learning Organization - by Dr. Jin Suk Park, Assistant Professor - Intend to submit to Journal of Knowledge Management (Q1)

Grants & Awards

Faculty	Grant	Project	Amount
Professor Vu Anh Dzung	SEED Fund	Vietnamese manufacturing competitiveness	\$USD 70,000
Dr. Le Thi Phuong Dung	SEED Fund	Research on wellness quality of Vinpearl	\$USD 49,723
Dr. Nguyen Thi Mai Lan	SEED Fund	Stability, efficiency, and resilience of hotels during Covid-19 pandemic: The role of capital structure and ESG strategy	\$USD 37,562
Dr. Jenny Kyunghwa Chung	SEED Fund	Evolving digital consumer behavior and social customer relationship marketing	\$USD 50,000
Dr. Jun Myung Song	British Council	Design and evaluation of leadership training for female students in higher education institutes in Vietnam	£25,000

College of Engineering & Computer Science

DEAN'S MESSAGE

It has been such a great honor and excitement for me to become the leader of the CECS team in January 2022. As we emerge from the pandemic, a renewed energy is palpable here, and we are all ready to embrace new projects and challenges.

We have lots of accomplishments to be proud of, let me list a few items in a long list. A new center, the VinUni – Illinois Smart Health center is now in existence, thanks to a generous funding from Vingroup; it will be a vibrant locus of many collaborative research projects with our international partner the University of Illinois (UIUC), and others. Other Research Centers are being worked on, for example a Digital Material Science Center, where AI will meet Material Science, to develop the materials of the future. It will be created in collaboration with VinFuture Prize winner Prof. Omar Yaghi from UC Berkeley.

We went on an intense Faculty hiring campaign, which appears to be very successful---stay tuned! We have a new CS PhD program starting this Fall. In parallel, we developed several international academic programs, such as 3+2 or 4+1 tracks, with world-renowned universities, such as UC San Diego. We have successfully found internships for all our students, a no small feat as we are so new! As we grow, we will develop more engagement with industry on the research front.

I am amazed at the amount of dedication and hard work our team are putting towards building this new College. And, when I interact with our students, I see a matching radiant energy in them. It's beautiful.

Go CECS!

Laurent El Ghaoui

Dean, College of Engineering & Computer Science



UNDERGRADUATE PROGRAMS

CECS aims to nurture students into future leaders and pioneers in the fields of science and technology. Our teaching methods not only focus on technical skills and knowledge but also encourage students to solve problems via critical thinking and thorough teamwork. In our second year of teaching, we taught the two cohorts (2020 and 2021), and aimed to provide our students with the fundamentals of Engineering and Computer Science.

Courses taught: 25 courses for intake 1 and intake 2 in the AY 2021 - 2022

- ▶ Calculus I
- ▶ Introduction to Engineering and CS
- ▶ Introduction to Programming
- ▶ Calculus II
- ▶ Physics I: Mechanics & Heat
- ▶ Object-Oriented Programming and Data Structures
- ▶ Computational/Algorithmic Thinking (CBM)
- ▶ Differential Equations
- ▶ Physics II
- ▶ Probability and Statistics
- ▶ Statics and Mechanics of Solids
- ▶ Introduction to Circuits for Electrical Engineers
- ▶ Discrete Mathematics
- ▶ Computer Organization
- ▶ Math for Business (CBM)
- ▶ Linear Algebra
- ▶ Physics III
- ▶ Chemistry
- ▶ Dynamics
- ▶ Signals and Information
- ▶ Computer Systems Programming
- ▶ Algorithm Design
- ▶ Database Concepts and Skills for Big Data (CBM)
- ▶ Artificial Intelligence
- ▶ Advanced Probability and Statistics

78 Computer Science (CS) Students (Intake 1:39, Intake 2 : 39)	31 Mechanical Engineering (ME) Students (Intake 1: 17, Intake 2: 14)	36 Electrical Engineering (EE) Students (Intake 1: 17, Intake 2: 19)
CECS delivered	1860 Lab/Recitation hours	1005 Lecture hours

POSTGRADUATE PROGRAM

The College has been successful in opening 2 new programs in the AY 2020 –2021. MOET has granted formal licenses to VinUni for the launching of Master of Innovation in AI and PhD in CS programs.



STUDENT ACHIEVEMENTS

1. International Blockchain Olympiad 2021

The three teams from CECS, VinUni achieved excellent achievements in the International Blockchain Olympiad 2021:

- ▶ The Blockers - Whitepaper on “Certchain” (VINUNI) – Merit Award in International round (Nguyen Minh Tuan, Mai Quang Tuan, To Kieu Khanh, Le Hoang Vinh, Pham Duc Hiep, Tram Diem Quynh)
- ▶ Bronze Prize at the International round: ViFaChain - Vietnamese Food Export Traceability & Quality Management System (Nguyen Tiet Nguyen Khoi, Do Quynh Trang, Nguyen Quang Truong, Ngo An Ha Trang)
- ▶ HealthTech Theme Prize at the International round: LifeLink (Nguyen Duy Anh Quan, Nguyen Mai Phuong, Pham Phuoc Minh Quang, Pham Quang Bach, Tran Huong Lan, Lam Nguyen Thanh Thao)

2. Winners of ICPC Contest

The representatives of VinUni - GitGuT team won the Bronze Medal in the 2021 ICPC Asia Hanoi Regional Programming Contest. The three students in the team are from CECS: Vu Truong Giang, Nguyen Thai Uyen, Vu Duy Tung.



3. Grant Received by a CS Student

Nguyen Minh Tuan - a sophomore in CS program - has just received funding from one of the world’s most well-endowed crypto ecosystems – the NEAR Foundation (a non-profit foundation about blockchain, headquartered in Switzerland). The Foundation has granted 50,000 USD (equivalent to more than 1.1 billion VND) for Tuan to implement his project on developing a digital blockchain-based marketplace that helps authenticate personal information.

Research Highlights	<div>31</div> <div>Papers Published</div>
Grants & Awards	<div>\$USD 686,359</div> <div>Total Grants Received</div>

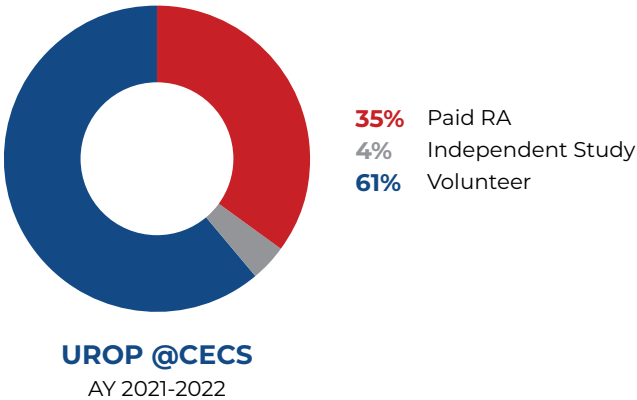
UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM (UROP) @CECS

The Undergraduate Research Opportunities Program @CECS (UROP@CECS) offers undergraduate students the opportunities to become a Research Assistant (RA) and work with CECS faculty in their research projects.

By becoming a RA, students have the chance to experience high-quality research mentored by world-class faculty from CECS in the field of Engineering and Computer Science. As a RA, students will have the opportunity to discover and/or confirm their career interests, develop their major knowledge and gain valuable professional skills and connections.

The information on this program is also available on the [UROP@CECS website](#).

In the Academic Year 2021-2022, 77 students applied to the UROP for different projects, showing their high motivation and desire for new knowledge by doing research.



The outstanding UROP research projects of CECS students throughout the year were exhibited and recognized on CECS Day - May 7, 2022. Applying knowledge to real-life, and promoting the development of interdisciplinary projects to solve real-life problems is one of the integral aspects of academic programs at VinUniversity.

The students had the chance to introduce guests, professors, and leaders of VinUniversity to their research on multiple exciting and practical topics such as Data Privacy, Machine learning, Biosensors, etc., as well as interdisciplinary projects applying technology to solve medical issues.



UROP STUDENTS' ACHIEVEMENTS

In the academic year 2020-2021, three student publications were accepted, including two publications on Q1-ranked journals and two conference papers.

Nguyen Thai Hung, student of the Computer Science program, together with two faculty of CECS: Prof. Kok-Seng Wong and Prof. Thomas Oikonomou, has had a scientific research paper published in IEEE Access, a Q1 journal – in the top 25% most prestigious journals in the field of Engineering and Computer Science. The title of the article is “Efficient Two-Party Integer Comparison with Block Vectorization Mechanism”. This is an outstanding achievement considering that Thai Hung conducted the research as a freshman at VinUni.

Three students from CECS (Nguyen Thai Hung, Vu Truong Giang, and Tran Huong Lan) have had a research paper accepted in the 36th International Conference on Information Networking (ICOIN 2022) to be held in Jeju Island, South Korea. The accepted paper is related to the emerging privacy and trust issues for autonomous vehicle systems.

The research paper titled “Coexistence of surface lattice resonances and bound states in the continuum in a plasmonic lattice” of two CECS students, Le Viet Hoang and Tran Gia Khanh, has also proudly been published in Optics Letters of Q1 group (top 25% of the most accredited journals in the field of Engineering and Computer Science). Group Q1 is regarded as a group of journals with the most challenging publishing process, which includes very strict requirements for research article reviewing. It is an extremely rare event for first-year students to have their names on research papers published in a Q1 Journal. Hence, this event represents a breakthrough in VinUniversity’s educational philosophy, which offers students the opportunity to participate in research with their professors and other faculty members since their freshman years.

The Independent Study project of our CECS freshman, Tran Quang Thanh has been accepted for presentation at the 2nd AI for Autonomous Driving workshop, at THE 31ST INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE (IJCAI 2022). His work is on “Towards Efficient and Explainable Distracted Driver Detection.” The International Joint Conference on Artificial Intelligence (IJCAI) is the leading conference in the field of Artificial Intelligence. The conference series has been organized by the nonprofit IJCAI Organization since 1969, making it the oldest premier AI conference series in the world. It was held biennially in odd-numbered years from 1969 to 2015 and annually starting from 2016. More recently, IJCAI was held jointly every four years with ECAI since 2018 and PRICAI since 2020 to promote collaboration among AI researchers and practitioners. IJCAI covers a broad range of research areas in the field of AI. It is a large and highly selective conference, with only about 20% or less of the submitted papers to be accepted after peer review in 5 years leading to 2022. Lower acceptance rate usually means better quality papers and higher reputation conferences.



Virtuality Workshop Organized by CECS Students

In the scope of the CECS Undergraduate Research Opportunities Program (UROP), CECS students have successfully organized a workshop named: ‘The Virtuality Workshop Series’ from 30/03 to 15/04. The series attracted 35 students from all the three Colleges who came to receive first hands-on experiences on virtual reality.

The workshop series are led by 3 VinMaker facilitators who are also research assistants at VinUni’s Virtual Reality & Hologram Lab: Nguyen Dai Nghia, Computer Science; and Ngo An Ha Trang and Lai Dac Tien, both from Electrical Engineering.

Other Events

STEM MASTER TRAINER

“STEM Master Trainer” has successfully completed its final round after 5 months of implementation. This activity aims to recruit and train dedicated and talented STEM teachers all around the country. During this activity, the teachers had to pass three rounds of exams and a three-day training session to select the 27 teachers who best meet the criteria of the Organizing Committee.

AUTONOMOUS VEHICLE DESIGN & CREATION CHALLENGE AT THE CECS DAY 2022

A playground for freshmen of the College of Engineering and Computer Science was successfully organized on CECS Day - May 7, 2022 to display their talents and complete their final exam of the “Introduction to Computer Science” course with applied AI autonomous vehicles.

EXTERNAL & CORPORATE ENGAGEMENT HIGHLIGHTS

There are 07 memoranda of understanding that have been signed between VinUni and universities around the world on the exchange program for CECS students, namely Cornell University, Toronto University, Pohang University of Science and Technology, University of Technology Sydney, Valencia Polytechnic University, Technion, Swiss Federal Institute of Technology Lausanne.

For the first batch of exchange students to Pohang University of Science and Technology, there are 2 CS students (Khau Lien Kiet, Nguyen Duong Tung) who have been officially selected for the Global Young Leaders Program (GYP). This is a full ride scholarship covering flight ticket, living expenses, tuition fees, visa fee etc.



Country	Student Exchange Agreement	#student exchange unit/ semester	CBM	CECS	CHS
United States	Cornell University	4	x	x	x
Canada	Toronto University	4	x	x	x
South Korea	Seoul National University	4	x		
	Yonsei University	2	x		
	Pohang University of Science and Technology	4		x	
Australia	University of Technology Sydney	19	x	x	x
Spain	Valencia Polytechnic University	1	x	x	
Israel	Technion - Israel Institute of Technology	10		x	x
Netherlands	Nyenrode Business University	3	x		
Hong Kong	Hong Kong University of Science and Technology	2	x		
Switzerland	Swiss Federal Institute of Technology Lausanne	4		x	
South Africa	Center for the AIDS Program of Research in South Africa	3			x
Total		60			

No.	University	Program
1	Cornell University	3+2 and/or 4+1 articulation programs in Electrical and Mechanical Engineering, and Computer Science.
2	UTS, Australia	3+2 articulation programs in Electrical and Mechanical Engineering, and Computer Science. Ph.D program
3	UIUC	3+2 collaborative education programs in Electrical Engineering, Mechanical Engineering, Computer Science, and Bioengineering. 4+1 collaborative education programs in Electrical Engineering, Mechanical Engineering, Computer Science, and Bioengineering.
4	UC San Diego	3+2 Structural engineering
5	University of Queensland	3.5+2 program in EE and ME

CECS RESEARCH PUBLICATIONS
AY 2021-2022

No.	Faculty	Paper Title	Journal/Conference	Date of Publication	Q Ranking	Note
1	Pham Ngoc Nam	Overall Quality Prediction for HTTP Adaptive Streaming Using LSTM Network	IEEE Transactions on circuits and systems for video technology	Aug 2021	Q1	
2	Thomas Oikonomou	The q-exponentials do not maximize the Rényi entropy	Physica A: Statistical Mechanics and its Applications 578 (2021): 126126	Sep 2021	Q2	
3	Hua Binh Son	Point-Unet: A Context-Aware Point-Based Neural Network for Volumetric Segmentation	International Conference on Medical Image Computing and Computer-Assisted Intervention 2021	Sep 2021		Conference paper
4	Kok-Seng Wong	"Efficient Two-Party Integer Comparison with Block Vectorization Mechanism"	IEEE Access 9 (2021): 123484-123492	Sep 2021	Q1	
5	Do Tho Truong	"Mechanical Properties of PolyJet 3D-Printed Composites Inspired by Space-filling Peano Curve"	Polymers 13.20 (2021): 3516.	Oct 2021	Q1	
6	Le Duy Dung	"Collaborative Curating for Discovery and Expansion of Visual Clusters"	Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining-2022	Feb 2021		Conference Paper
7	Le Duc Hau	Re-Identification of Patient Subgroups in Uveal Melanoma. (English) ; Abstract available. By: Nguyen THY; Nguyen T; Nguyen QH; Le DH, Frontiers in oncology [Front Oncol], ISSN: 2234-943X, 2021 Oct 20; Vol. 11, pp. 731548; Publisher: Frontiers Research Foundation]; PMID: 34745953	Frontiers in Oncology	Oct 2021	Q1	
8	Hua Binh Son	Neural Sequence Transformation	Computer Graphics Forum	Nov 2021	Q2	
9	Pham Huy Hieu	VinDr-SpineXR: A Deep Learning Framework for Spinal Lesions Detection and Classification from Radiographs	International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI). Springer, Cham, 2021	Oct 2021		Conference paper
10	Do Tho Truong	From nature to additive manufacturing: Biomimicry of porcupine quill	Materials & Design 210 (2021):110041	Nov 2021	Q1	
11	Kok-Seng Wong	A Survey on Deep Learning Advances and Emerging Issues in Pneumonia and COVID19 Prediction	IEEE BigComp2022	Jan 2022		Conference Paper
12	Nguyen Viet Tu	"Secondary Reflections Amongst Multiple IRSs: Friends or Foes?"	IEEE Wireless Communications and Networking Conference (WCNC) 2022	Apr 2022		Conference Paper
13	Kok-Seng Wong	Improving Multi-Label Text Classification Using Weighted Information Gain And Co-Trained Multinomial Naïve Bayes Classifier	Malaysian Journal of Computer Science 35.1 (2022): 21-36.	Jan 2022	Q3	
14	Vo Sy Nam	BRCA1/2 Mutations in Vietnamese Patients with Hereditary Breast and Ovarian Cancer Syndrome	Genes 2022, 13(2), 268	Feb 2022	Q2	

No.	Faculty	Paper Title	Journal/Conference	Date of Publication	Q Ranking	Note
15	Vo Sy Nam	LmTag: functional-enrichment and imputation-aware tag SNP selection for population-specific genotyping arrays	bioRxiv	Jan 2022	NA	
16	Vo Sy Nam	A comprehensive imputation-based evaluation of tag SNP selection strategies	2021 13th International Conference on Knowledge and Systems Engineering (KSE)	Nov 2021		Conference paper
17	Nguyen Do Trung Chanh	VisualCheXbert: addressing the discrepancy between radiology report labels and image labels	Proceedings of the Conference on Health, Inference, and Learning	Aug 2021		Conference paper
18	Nguyen Do Trung Chanh	Deep Learning Model With Convolutional Neural Network for Detecting and Segmenting Hepatocellular Carcinoma in CT: A Preliminary Study	Cureus	Jan 2022	NA	
19	Nguyen Do Trung Chanh	ReSORT: an ID-recovery multi-face tracking method for surveillance cameras	2021 16th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2021)	Dec 2021		Conference paper
20	Pham Huy Hieu	Learning to Automatically Diagnose Multiple Diseases in Pediatric Chest Radiographs Using Deep Convolutional Neural Networks	Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)	Aug 2021		Conference paper
21	Pham Huy Hieu	DICOM Imaging Router: An Open Deep Learning Framework for Classification of Body Parts from DICOM X-ray Scans	Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)	Aug 2021		Conference paper
22	Pham Huy Hieu	VinDr-RibCXR: A Benchmark Dataset for Automatic Segmentation and Labeling of Individual Ribs on Chest X-rays	Proceedings of Medical Imaging with Deep Learning (MIDL)	Jul 2021		Conference paper
23	Le Duy Dung	Learning Weighted Product Spaces Representations for Graphs of Heterogeneous Structures	Learning Weighted Product Spaces Representations for Graphs of Heterogeneous Structures	Apr 2022		Conference paper
24	Le Duy Dung	Improving Transformers with Probabilistic Attention Keys	39th International Conference on Machine Learning (ICML 2022)	Jul 2022		Conference paper
25	Huy Hieu Pham	A novel multi-view deep learning approach for BI-RADS and density assessment of mammograms	44th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (2022 EMBC)	Jul 2022		Conference paper
26	Le Duy Dung	Efficient Retrieval of Matrix Factorization-Based Top-k Recommendations	Proceedings of the IJCAI 2021 Journal Track (19 – 26/8/2021)	Aug 2021		Conference paper
27	Le Van Quynh	Angled excitation of surface lattice resonances in plasmonic arrays with a finite element method	10th International Workshop on Advanced Materials Science and Nanotechnology (10th IWAMSN 18-20/8/2021)	Aug 2021		Conference paper
28	Le Van Quynh	An angle-resolved spectroscopy setup for Fourier plane spectroscopy	10th International Workshop on Advanced Materials Science and Nanotechnology (10th IWAMSN 18-20/8/2021)	Aug 2021		Conference paper
29	Le Van Quynh	Coexistence of surface lattice resonances and bound states in the continuum in a plasmonic lattice	Optics Letters	March 2022	Q1	
30	Tran Thi Mai	Point Spread Function of the Polarized Light Field Microscope	JOSA A	May 2022	Q2	
31	Do Tho Truong	Flexural behavior of 3D printed bio-inspired interlocking suture structures	Materials Science in Additive Manufacturing	June 2022		

CECS RESEARCH PROJECTS
AY 2021-2022

No.	Source of Funding	Name of Projects	Approved Budget	New budget	Total budget
			AY 20-21	AY 21-22	AY 21-22
I	Seed Fund		10,453,176,000	1,057,500,000	8,998,625,096
1	SeedFund - PI_Nguyen Viet Tu	Applying Machine Learning to mitigate RF impairments in wireless communications systems	1,580,046,000		1,498,717,429
2	SeedFund - PI_Kok-Seng Wong	Privacy-Preserving Data Publishing for Autonomous Vehicles	1,495,375,500		1,161,692,071
3	SeedFund - PI_Quynh Le	Energy-efficient light-emitting diodes for solid-state lighting applications through hybridization between quantum emitters and optical metamaterials	1,849,356,000		59,853,063
4	SeedFund - PI_Cuong Do	ECGs classification for cardiovascular diseases diagnostics on mobile devices	1,285,990,500		1,248,851,500
5	SeedFund - PI_Truong Do	In-situ monitoring of directed energy deposition additive manufacturing (3D printing) system using optical and infrared imaging	1,300,490,000		1,300,490,000
6	SeedFund - PI_Mai Tran	3D imaging of cells and tissues using polarized light microscopy	1,766,918,000		1,748,604,366
7	SeedFund - PI_Minh Do		1,175,000,000		922,916,667
8	SeedFund - PI Le Duy Dung	Multimodal Federated Learning for Multi-Objective Recommendations		587,500,000	587,500,000
9	SeedFund - PI Laurent El Ghaoui	Implicit Deep Learning		470,000,000	470,000,000
II	External Fund		5,264,000,000	5,404,300,000	5,870,367,002
1	VinIF – Nam Pham	Enabling an End-to-End QoS Framework for Live 360-Degree-Video Streaming in Support of Virtual Classroom/Virtual Laboratory	1,264,000,000	1,279,300,000	1,745,367,002
2	VinIF – VAIPE – Minh Do, Hiệu Phạm	AI-assisted IoT-enabled smart, optimal, and Protective hEalthcare monitoring and supporting system for Vietnamese.		1,500,000,000	1,500,000,000
3	VinIF – MetalLEDs – Quynh Le	Phát triển chip LED đa chức năng từ vật liệu metamaterials định hướng ứng dụng cho chiếu sáng xe điện và màn hình phân giải cao (Perovskite MetaLEDs: a smart lighting device over conventional light-emitted diodes (LEDs) for electric vehicle's lighting and ultra-high resolution displays)		1,200,000,000	1,200,000,000
4	International Ambition Pack, Auvergne-Rhône-Alpe région, France - Quỳnh Lê	Increasing the efficiency of perovskite solar cell and light emitting diodes by plasmonic metamaterials/ Tăng cường hiệu suất của pin mặt trời và diode phát quang từ vật liệu perovskites bằng siêu vật liệu		367,500,000	367,500,000
5	VinIF - 3D BioPrinting - Truong Do	Design and fabrication of a hybrid 3D bioprinter for laying the foundation of tissue engineering research in Vietnam	4,000,000,000		
6	DARPA via Monash - Wray Buntine	Change Detection in Multi-modal Data		1,057,500,000	1,057,500,000

No.	Source of Funding	Name of Projects	Approved Budget	New budget	Total budget
			AY 20-21	AY 21-22	AY 21-22
7	VINIF - Le Duy Dung	Phát triển hệ thống quản lý chất lượng môi trường bên trong thông minh với công nghệ trí tuệ nhân tạo cho những ngôi nhà xanh hơn và trong lành hơn tại Việt Nam V-IndoorCARE: A novel Ai-based smaRt Indoor Environmental quality Control system for healthier and greener houses in Vietnam	Applying for Vingroup Innovation Fund (VINIF)		
8	VINIF - Le Duy Dung	SMART CEM - Ứng dụng trí tuệ nhân tạo và thiết bị theo dõi sự chú ý thị giác để thiết kế và quản lý trải nghiệm khách hàng tuyệt vời cho ngành khách sạn	Applying for Vingroup Innovation Fund (VINIF)		
9	NAFOSTED – Mai Tran	3D imaging of cells and tissues using the novel polarized light field microscope	Applying for National Foundation for Science and Technology Development (NAFOSTED) Vietnam		
III	Other VinUni Fund			28,352,750,00	28,352,750,000
1	VinUni – Smart Health Center – Minh Do	Phát triển các thiết bị chăm sóc tại chỗ để phát hiện sốt xuất huyết và nhiễm trùng huyết		8,965,250,000	8,965,250,000
2	Digital Material - Laurent EL Ghaoui	Digital Material Science		Applying for VinUni Innovation Fund	
3	Climate Change - Laurent EL Ghaoui	Climate Change		Applying for Fund	
4	VinUni – Smart Health Center - Wray Buntine	Trợ lý số sử dụng công nghệ AI hỗ trợ trao đổi trong môi trường đa văn hoá		1,057,500,000	1,057,500,000
5	VinUni – Smart Health Center, Quynh Le, Cuong Do Danh	Chăm sóc và chẩn đoán từ xa cho các hệ thống y tế thông minh theo hướng dữ liệu Point of Care and Telehealth Diagnostics for Data-Driven Smart Health Systems		6,110,000,000	6,110,000,000
6	VinUni – Smart Health Center, Kok-Seng Wong	Máy học liên kết, có thể giải thích được, cho hệ thống chăm sóc sức khỏe Privacy-Preserving, Robust, and Explainable Federated Learning Framework for Healthcare System		6,110,000,000	6,110,000,000
7	VinUni – Smart Health Center, Co-PI: Minh Do	Giám sát dịch tễ nước thải ở Việt Nam/ Wastewater Epidemiological Surveillance in Vietnam.		6,110,000,000	6,110,000,000
III	Other Unfunded Projects				
1	Wray Buntine	Extraction of Experimental Sections from Chemisty Abstracts			
2	Wray Buntine	Vietnamese language processing demo			
3	Tu Nguyen	Leveraging Secondary Reflections and Mitigating Interference in Multi-IRS/RIS Aided Wireless Network	Joint research with UTS faculty		
4	Mai Tran	Biosensor			
5	Mai Tran	Data Science in Engineeing			
	Total		15,717,176,000	34,814,550,000	43,221,742,098

College of Health Sciences

DEAN'S MESSAGE

Welcome to the College of Health Sciences.

It is a true privilege to represent the dedicated faculty and staff that serve with passion, commitment and distinction the College and the University and its trainees. I am proud to present the achievements of our first year of operation.

Staff and faculty bonded together in supporting, teaching and mentoring our first cohort of students and residents. Our students and residents bonded together and with other VinUniversity students as they shared the experience of living and studying in our beautiful and brand-new campus

In order to celebrate the beginning of a new career, focused on caring, compassion and knowledge, we had our first ever white coat ceremony. The students were joined by friends and family in this landmark day of their academic and professional life.

The importance of caring and compassion and a humanistic perspective on health care professions are critical aspects of our educational journey.

As we move towards the next academic year, we are all very excited about welcoming the third cohort of students and residents and to continue to work with our returning

students toward the goal of forming Vietnam's future health care leaders.

Maurizio Trevisan, MD

Founding Dean, College of Health Sciences



UNDERGRADUATE PROGRAMS

Bachelor of Nursing (BN) program

Academic highlights:

- ▶ The Covid-19 pandemic provided significant challenges for our planned offline teaching. For nearly half of the AY 21-22, all courses had to be moved to an online mode. Activities considered standard offline practices, such as simulation and laboratory teachings, were successfully taught online for the first time. Both faculty and students gained lots of experience, and the organization of teaching and learning activities was significantly modified to address this critical and unexpected challenge.
- ▶ In collaborations with the College of Business and Management and the College of Engineering and Computer Science, the Nursing program launched two minors for its students: Healthcare Services Management and Computer Science in Healthcare.
- ▶ The Bachelor of Nursing curriculum was modified to be more clinically oriented with early immersion in the clinical environment at Vinmec Hospital. All students had the opportunity to experience the hospital's activities, organization, infection control system, etc. These early clinical experiences allowed the students to gain an enriched understanding of the clinical environment.

Research activities:

- ▶ The nursing faculty published 15 research articles in local and international journals. They also published one book in collaboration with colleagues from the VinUniversity Simulation center. All full-time nursing faculty members are active reviewers for international and national nursing journals.
- ▶ The Nursing faculty members received three research grants from VinUni and four others from the Australian government, the Vietnam's Center for Creative Initiatives in Health and Population, and the Health Bridge.
- ▶ 60% of nursing students engaged in research activities by assisting faculty in their research projects through the Work-Study Program. Two students received VinUni's research grants to conduct their own research projects under the supervision of nursing faculty. Our nursing students have presented five oral and two poster presentations at international and national conferences.

Career development activities

- ▶ The "Talking with the experts" series was organized to help students broaden their views about future careers. Via open dialogs, students had the opportunity to connect with internationally recognized professors and six top Vietnamese nurses working both domestically and globally. Various career tracks were depicted to the students via these meetings, including faculty, researchers, clinical practitioners, and entrepreneurs.
- ▶ Woolcock Australia in Vietnam agreed to have nursing students intern in their organization during the summer semester. Additional internship experiences were provided at Vinmec International Hospital, the 3D-lab, and NGOs.

Read more about our BN program: <https://vinuni.edu.vn/college-of-health-sciences/bachelor-of-nursing/>



Medical Doctor (MD) Program

The focus of the academic year has been on developing MD students as professionals, researchers and leaders so we constantly created opportunities for student involvement.

Academic highlights

- ▶ Year One started amidst covid pandemic however by the end of first semester we moved to face to face teaching.
- ▶ Year one students created professionalism stories using creative use of media which have been used on various forums.
- ▶ An MD student research symposium was arranged at the end of the academic year where 11 research projects conducted by year 1 students were presented.
- ▶ Year 2 students were finally able to visit community clinics and VINMEC hospital to observe clinical settings.
- ▶ MD Partners is a new initiative where community members give time to train and educate medical students. Both year 1 and year 2 students benefitted from this interaction.
- ▶ Transition to clinical environment is a new initiative by one of the MD Education team member Dr. Mai Xuan Son. This project allows student to practice medical communication in Vietnamese and English simultaneously.

Student highlights

- ▶ Truong Le Hoang Huy won the third prize in essay writing at the 5th National Vietnam Conference.
- ▶ An online webinar was arranged in collaboration with Medical Women International Association to hear from women leaders in medical education from around the world.
- ▶ Tran Thi Thu Hien, Pham Thuy Dung and Nguyen Minh Khoi have been nominated for various positions in the proposed Vietnamese Medical Students Association. They attended the International Federation of Medical Students Association (IFMSA) regional meeting in Malaysia with support from the College.
- ▶ Le Tran Khan Lam, Nguyen Anh Thu, Nguyen Hoang Son, Truong Le Hoang Huy, Le Quoc Khanh and Nguyen Hoang Phat were student representatives on student committees as part of MD governance structure.



Medical Education highlights

- ▶ Launched the first internship program in medical education with Dr. Ninh Thi Nhu Quynh, a resident in Cardiology as our first intern who will spend 3 months.
- ▶ Dr. Ha Minh Thuy graduated as FAiMER Fellow and is now pursuing a Master degree from Maastricht University.
- ▶ MDEDUCATION@CHS is our newsletter which we will publish every two months.
- ▶ A series of faculty development workshops were offered.
- ▶ Presentations on various medical education related topics were made at national and international conferences.

Read more about our MD program: <https://vinuni.edu.vn/college-of-health-sciences/medical-doctor-program/md-program>

ACHIEVEMENT HIGHLIGHTS

VinUniversity Medical Simulation Center (VMSC). VinUniversity is the first and only higher education institution in Vietnam that established a simulation center with state-of-the-art facilities, including high-fidelity simulators, AV system, Simboost – simulation center management software. For the Academic Year 2021- 2022, VMSC has successfully provided simulation courses and issued 641 AHA certificates to learners, including:

- ▶ 134 to VinUniversity's students and staff, 177 to Vinmec professionals, and 85 to professionals from public hospitals such as 108, Saint Paul, 175.
- ▶ 56 to Basic Life Support (BLS) instructors (valid until 2024) and 30 to Advanced Cardiovascular Life Support (ACLS) instructors (valid until 2024).

Other highlights included:

- ▶ 7 Communication in Medical encounters courses for 57 doctors from Vinmec hospital.
- ▶ 3 Basic First Aid courses for 46 external clients from Vietnam Television (VTV), Finland Embassy and Vinbus

Read more about VinUniversity Simulation center here: <https://vinuni.edu.vn/sim/>

GRADUATE MEDICAL EDUCATION (GME) PROGRAMS

Graduate Medical Education (GME) at VinUniversity comprises three distinct residency programs in Internal Medicine, Pediatrics, and General Surgery. Each program has been developed to meet the highest international standards in graduate medical education in close collaboration with the University of Pennsylvania. These residency programs are the first in Vietnam to aspire to accreditation by the Accreditation Council for Graduate Medical Education International (ACGME-I). These programs are also the first to train residents through a partnership between a newly established private higher education institution in affiliation with a not-for-profit private healthcare system and leading public hospitals.

In the summer of 2021, the first cohort of VinUniversity residents showed great resilience and flexibility as they faced the surge of COVID-19 during their first months of clinical training. Similarly, a talented and resilient group of applicants persevered through a recruitment process that was extended by almost three months due to the pandemic. The three GME programs matched the second cohort of 21 residents in December of 2021 and they officially started their training at VinUniversity in January of 2022. With the addition of the second cohort, the total number of trainees in each program in academic year 2021-2022 is:

20	12	8
residents in Internal Medicine	residents in Pediatrics	residents in General Surgery

Our first two cohorts of residents are incredibly talented and diverse, with 20 men and 20 women coming from 14 medical schools throughout Vietnam.

Academic Highlights

- ▶ The second GME recruitment cycle in 2021 included 101 applicants taking the International Foundations of Medicine (IFOM) exam - the first internationally benchmarked exam to be translated, validated, and administered in Vietnamese. This was a significant increase in examinees compared to the 58 who took the exam in 2020, reflecting VinUniversity's increasing reputation and strong recruitment efforts by the Admissions and GME teams. The matriculating residents of the second cohort achieved a mean score well above the mean score of the international comparison group reported by the National Board of Medical Examiners (NBME).
- ▶ The second cohort of residents completed the Core Clinical Skills courses over 17 weeks from January to May 2022. This novel, concentrated resident preparation curriculum includes lectures, workshops, simulation activities, and a longitudinal preceptorship at Vinmec Times City International Hospital. The core GME team revised this pre-clinical curriculum to increase its impact based on resident feedback and our experience from academic year 2020-2021. At the conclusion of the course, the residents completed an Objective Structured Clinical Examination (OSCE) at the VinUniversity Simulation Center. The administration of the OSCE stretched over two days, with each resident completing seven half-hour stations, an EKG exam, and a radiology exam. For the first time, five stations used standardized patients, trained actors who performed a clinical

scenario, to evaluate the residents' abilities to complete a history and physical examination and synthesize the clinical information to direct the next steps in diagnosis and management. Two stations used anatomically accurate simulation models to evaluate the residents' performance of a clinical procedure. The OSCE format is a critical tool for evaluating trainee's readiness to enter the clinical training environment and providing focused formative feedback.

- ▶ In February of 2022, the first cohort of General Surgery residents took the American Board of Surgery In-Training Exam (ABSITE). The American Board of Surgery offers this exam once each year to all General Surgery residents in the United States and a select group of international sites. The exam is in English and computer-based. Examinees complete 250 multiple-choice questions in a five-hour time limit. The VinUniversity residents achieved an average standardized score well above the average standardized score of the international comparison cohort at the same training level. Residents from Pediatrics and Internal Medicine will take similar benchmarked exams later in 2022 when the exams are offered by the respective specialty organizations.
- ▶ Each residency program appointed and implemented a Clinical Competency Committee (CCC), with the first meetings occurring in late 2021. The CCC is composed of faculty, appointed by the Program Director, who meet at least twice per year to review evaluation data for each resident and collectively determine each resident's progress on a set of specialty-specific developmental milestones. The CCC is a critical component of the competency-based education structure and provides important information to the Program Director, allowing for development of an individual learning plan based on each resident's strengths and areas for improvement.



Professional Exposure

- ▶ In academic year 2021-2022, the residency programs began rotations in two leading partner public hospitals- National Children's Hospital and Military Central Hospital 108. The Internal Medicine and General Surgery residents will work in 10 departments in Military Central Hospital 108 and the Pediatrics residents will work in 6 departments in National Children's Hospital during this academic year. The GME team is actively working to expand the number of departments in these partner sites in future years. The excellent training opportunities in these public hospitals will complement the ongoing training at Vinmec Times City International Hospital.
- ▶ The officially appointed affiliate and adjunct clinical faculty for all three programs across the three training sites has now expanded to 139 physicians. The GME team continues active faculty development through the Master Clinical Educator Academy (MCEA) framework and focused sessions at the partner hospitals. In academic year 2021-2022, the GME team conducted the first two sessions of MCEA Part 2-multi-day, active workshops that expand and build on topics from MCEA Part 1. We also conducted two additional sessions of MCEA Part 1 for newly-appointed faculty. We plan to conduct additional sessions of MCEA Part 1 and Part 2 in the summer and fall of 2022. Also, in 2022 a select group of outstanding faculty members will begin MCEA Part 3, which will include participation in a Health Professions Education Certificate Program from the University of Pennsylvania and a site visit to Penn.

Resident Highlights

- ▶ Dr. Nguyen Thi The Trinh and Dr. Tran Manh Thang, from the first cohort of General Surgery residents, worked with affiliate faculty Dr. Nguyen Ngoc Khanh and Surgery Program Director Dr. Elijah Riddle on a project titled "Results of Applying Enhanced Recovery After Surgery (ERAS) at Vinmec Times City" Dr. Trinh delivered the virtual podium presentation at the Vietnam Association of Surgery and Endolaparosurgery (VASEL) Conference on 11 December 2021. Dr. Nguyen Thi The Trinh also worked with a team including affiliate faculty Dr. Vu Ngoc Thang and Dr. Le Van Hung from Vinmec Times City on a research project titled "Outcome of Flexible Ureteroscopy for Management of Renal Calculi without Stenting". This report was published in the Vietnam Medical Journal No. 509 December 2021.
- ▶ Dr. Nguyen Hoang Kim Han, from the first cohort of Internal Medicine residents, presented a case report about Autosomal Recessive Hyper-IgE Syndrome in the Asia Pacific Association of Allergy, Asthma, and Clinical Immunology (APAAACI) MasterClass on 14 March 2022. The theme of the MasterClass was "Current Updates on Chronic Urticaria and Atopic Dermatitis". A recording of the MasterClass session is available at the following link: <https://www.youtube.com/watch?v=cSlkg8KF7I8>.

Read more about our GME programs: <https://vinuni.edu.vn/post-graduate/>

RESEARCH HIGHLIGHTS IN AY21-22

- ▶ 57 Papers Published by Full-Time Faculty
- ▶ 24 Papers Published by Affiliated Faculty
- ▶ 3 books and 28 book chapters by Full-Time Faculty
- ▶ 4 VinUni Seed Funding Projects
- ▶ 9 Research Grant from Center for Creative Initiatives in Health and Population; Australian Alumni Grants Fund Round 4-2021 (2); HealthBridge Canada; The British Council in the United Kingdom; VinUniversity-University of Illinois Smart Health Center (VISHC) Start-Up Project Grant (2); The International Collaboration Research Grant, Thaksin University, Thailand 2021-2022; VinUni fast-track Funding.

EVENTS

Conferences

Faculty members and students participated in various medical conferences in order to share ideas, innovative advances, and best teaching practices in medical education. Especially, the conferences CHS joined included: The fifth Annual National Conference in Medical Education (December 2021), The first general meeting and foundation of Medical Education Association (May 2022).



Faculty of Arts & Sciences

HEAD’S MESSAGE

This academic year was really incredible. We have seen so much growth in our students, and we are confident that our students will soon excel and become independent in many aspects of their life and studies. They learned not only the knowledge that they were required to learn, but also how to learn correctly, how to think critically and creatively, how to debate, how to live with other people, and even how to care for other people. The diversity that FAS offers, from the international professors and faculty to the introduction of multiple disciplines, courses, and pedagogical styles – all of this will help create long-lasting memories for our students. Hopefully, one day, when they go to work, they will be well prepared and ready to tackle any world issue.

Vu Anh Dzung, PhD

Founding Head, Faculty of Arts and Sciences



Courses taught:

- ▶ Academic English 1 & 2
- ▶ Pathway English Advanced A & B
- ▶ OASIS (Orientation - Academic Skills - Identity and Service)
- ▶ Marxism-Leninism Philosophy (Philosophy Science and Society)
- ▶ History of the Communist Party (Vietnam: History and Culture I)
- ▶ Ho Chi Minh Ideology (Vietnam: History and Culture II)
- ▶ Marxism-Leninism Political Economy (Global Political Economy)
- ▶ Scientific Socialism (Politics and Social Change)
- ▶ Introduction to Law
- ▶ Cross Cultural Navigation
- ▶ Asian Philosophy
- ▶ Healthy Lifestyle 1 & 2
- ▶ Arts Appreciation
- ▶ Music Appreciation

Innovative learning approach

At FAS, we encourage constructive debate for learning instead of forcing students to memorize study materials word-by-word. Students are often put into groups to research historical data, build relationship diagrams between characters and historical events, and validate the legitimacy of information in order to work together and put forward their opinions.

As for courseworks, students are encouraged to produce documentaries, or short films, and write music, poems, or plays.

GENED PROGRAM

Developed with the aim to:

- ▶ Broaden horizons and intellectual curiosity
- ▶ Enhance sound values and life-long excellence

The program learning goals and learning objectives are aligned with VinUni’s mission, core value and generic graduate attributes (EXCEL: Empathy, Exceptional Capabilities, Creativity, Entrepreneurial Mindsets, Leadership). There are three learning goals and nine learning objectives as below (please note that EXCEL are integrated in those learning goals and objectives):

- ▶ **Program Learning Goal 1 (PLG1): Develops and Nurtures Values**
The GenED Program develops and nurtures values that serve as the foundation to build personal and professional achievement and contribution to the community, local and global.
- ▶ **Program Learning Goal 2 (PLG2): Promotes Transferable Skills**
The GenED Program promotes transferable skills for success beyond the university.
- ▶ **Program Learning Goal 3 (PLG3): Broadens the Horizons of Knowledge and Curiosity**
The GenED Program broadens the horizons of knowledge and encourages intellectual curiosity in students.

VinUniversity’s dynamic, innovative General Education Program (GenED) will develop tomorrow’s ambitious leaders by providing the knowledge, skills, competencies, and core values needed to make an impact as professionals, entrepreneurial leaders, and global citizens.

STUDY-AWAY PROGRAM

In 2022, we welcomed about 19 Ukrainian students coming to VinUni campus on the Study-away programme initiated by Prof. David Harrison. Ukrainian students joined many classes and activities run by FAS.

FAS OPEN LECTURE SERIES

We launched a well-attended Open Lecture Series with many experts and leaders in various fields including Mr. Nguyen Bien Thuy – The People’s Supreme Court’s Judges, Dr. Luu Binh Nhuong, Deputy Head of the People’s Wishes Committee (Ban Dan Nguyen), and Pianist Trang Trinh (Forbes under 30), as well as other arts and cultural series.

List of FAS Open lecture series:

Date	Course	Guest	Topic
1/10/2021	Healthy Lifestyle	Prof. Laura Vanderbloemen	Let’s Yoga
10/12/2021	Politics and Social Change	- Dr. Luu Binh Nhuong, Deputy Head of the People’s Wishes Committee (Ban Dan Nguyen). - Mr. Nguyen Van Pha, Former Deputy Director, Committee on Legal Affairs National Assembly from 2016 to 2021.	Roles of National Assembly in Vietnam
16/12/2021	Healthy Lifestyle	Prof. Pranee Liamputtong	gender, sex, sexuality, and health inequalities
28/12/2021	Introduction to law	Mr. Nguyen Bien Thuy, Judge, People’s Supreme Court’s Judges	Position, Roles and Activities of Judges: Views from A Supreme Court’s Judge
22/3/2022	Music Appreciation	Mrs. Trang Trinh, Pianist	Classical music from A-G
29/3/2022	Music Appreciation	Mr. Park Sung Min, Tenor	Opera and Theater Music
31/3/2022	Cross cultural navigation	- Ms. Nguyen Thi Ngoc Anh, sign language expert, teacher, deaf person - Mr. Nguyen Tuan Linh, sign language expert, teacher, deaf person	Deaf in vietnam: language, culture, and communication
12/4/2022	Music Appreciation	Prof. Daniel Ruelle	Jazz Appreciation: The J to Z of jazz

Date	Course	Guest	Topic
21/4/2022	Asian Philosophy	Dr. Pham Van Anh - Deputy Director of the Institute of Literature and Deputy Editor-in-Chief of the Journal of Literary Studies	Calligraphy
11/5/2022	Vietnam history & culture 1	Prof. Do Truong Giang, Institute of Imperial Citadel Studies	The ancient Champa kingdom: History and Culture
17/5/2022	Music Appreciation	Mr Henry Hiến Nguyễn	Chau Van Music in the worship of Mother Goddesses
31/5/2022	Introduction to Law	Mr. Nguyen Hung Quang, Lawyer, Managing Partner, CEDR Accredited Mediator, Vice President of VSIL, President of VICMC	Position, Roles and Activities of Lawyers: Views from A Practicing Lawyer

KEY ACHIEVEMENTS

Time	Key Achievement
September 2021	The first ever executive education program of VinUni developed and run by Faculty of Arts and Sciences (FAS) – English Professional for Doctors – launched on Wednesday 15th September, 2021 for 40+ participants from Vinmec. The opening ceremony was held with the presence of senior leadership from VinUni and Vinmec (President, Provost, Program Directors and faculty across academic units of VinUni; Deputy CEO and leaders from functional areas of Vinmec)
	New course under the required GenED curriculum developed and implemented by FAS for Semester 1 of AY 2021-2022: Introduction to Law. The aim of the course is to enable students to understand not only legal provisions but also the spirit and principles of the rule of law. The course is being delivered by Assoc. Prof. Dang Minh Tuan, an Adjunct Faculty of FAS who is from Vietnam National University, School of Law, Hanoi. He was a Fulbright Scholar at Boston College and New York University.
October 2021	Online Healthy Lifestyle class was kicked off with two highly interactive workshops taught by FAS’s faculty, Ms. Lien Trinh. Friday Yoga Sessions with Laura (as part of FAS Open Lecture Series) have been popular among VinUni students. The average number of participants for each class is around 160 students. The idea is to encourage students to be proactive in being active, even if they are not supervised by sports coaches.
November 2021	FAS signed an agreement with David Einhorn Center of Cornell University on CSL. The VinUni-Cornell Uni collaboration is greatly facilitated by the Vietnamese home-grown NGO, Centre for Supporting Community Development Initiatives, a member of the Vietnam Union for Science and Technological Associations (VUSTA).
December 2021	Prof. Jason Picard gave a virtual presentation of his research on contemporary Vietnamese history to Yale University. The talk covered the period of 1920-1945 and examined how the French colonial prison system inadvertently served as a crucial instrument in the development of anti-colonialism, nationalism, and ultimately Marxism-Leninism in Vietnam.
January 2022	Dr. Billy Wheeler’s paper “Causation in a Virtual World: A Mechanistic Approach” was accepted for publication in Philosophy & Technology, a leading journal in the field of Philosophy of Technology. This paper was supported through the VinUni-Cornell Mentorship program and Billy wishes to thank especially his research mentor Dr. Nico Silins, Sage School of Philosophy - Cornell University.
	GENED CO-DESIGN WORKSHOP on Leadership Framework refinement was held on January 6th, 2022. About 20 leaders and professors from VinUni joined this workshop.
	The first ever Persuasive Presentation Competition was held on January 7th, organized by the Academic English team.
	Memorandum of Understanding between the Center of Southeast Asia Studies (CSEAS) of the Kyoto University and FAS was officially signed.

Time	Key Achievement
March 2022	BRITISH COUNCIL RESEARCH FUNDING APPROVAL The FAS-CHS research team represented by Dr Pranee Liamputtong and Ms Lien Trinh, in collaboration with University of East Anglia (UK), has successfully received a research grant, valued at £25,000 from British Council. This is part of the Going Global Partnerships’ funding round focusing on gender equality in four countries: Bangladesh, Indonesia, Peru and Vietnam. Call for submission was announced in January 2022, and within a short timeframe the team put together a research proposal that addresses the economic disparities faced by gender and sexual minority individuals belonging to the LGBTQ+ community, evaluating the lived experiences of these minority groups in the higher education context in Vietnam.
	NATIONAL DEFENSE EDUCATION The National Defense Education has been successfully implemented in accordance with the Regulations for all VinUni students (First Year and Second Year students) of the theoretical and strategic components. The intensive course (online) was held from February 26 to March 13 for students who could not attend in person due to objective conditions (F0, F1). The course's objectives, in addition to the prescribed mandatory requirements, also aim to train students with pride, spirit of love for their homeland and country, and practice discipline in the military environment. Students followed principles and discipline, creating a basis for students to cultivate and excel their own life skills. VinUni’s program and students have been evaluated very positively by the lecturers and managers of the Center for National Defense and Security Education under the Thuy Loi University, which was appointed by the National Security Council and the Ministry of Education. The practical component is expected to be held in September 2022 for all VinUni students.
April 2022	“CHINA’S BELT AND ROAD INITIATIVE IN ASEAN – GROWING PRESENCE, RECENT PROGRESS AND FUTURE CHALLENGES” - DR. ANUPAMA’S SECOND CO-EDITED BOOK IS PUBLISHED BY THE WORLD SCIENTIFIC, SINGAPORE The book examines how China’s influence via its Belt and Road Initiative (BRI) is growing in the Southeast Asian or the ASEAN (the Association of Southeast Asian Nations) region. It addresses various BRI dimensions, provides unique perspectives, empirical evidence, and updated information on the overall progress of BRI in ASEAN. The authors, mostly from ASEAN and China, add distinct views and perspectives based on their first-hand experiences, observations, and access to local public narratives
May 2022	CO-DESIGNED WORKSHOP IN DIGITAL HUMANITIES Co-designed workshop between VinUni/ FAS and Fulbright University and Vietnam National University about Digital Humanities which is an interdisciplinary collaborative project designed by Fulbright University, Vietnam National University, and VinUniversity. With the mission to pioneer this field of study in Vietnam, the faculty and students at the three institutions have organized a full-day workshop on May 14 to explore teaching and research approaches to this subject and to co-design the first course curriculum. An MoU is in progress to be signed.
June 2022	HIGH LEVEL ROUNDTABLE On 17 June 2022, FAS and the Ministry of Education and Training (MOET) conducted the first high-level Roundtable on leadership role of university in the 21st century with the aim to promote higher education institutions to share their vision and best practices, to collaborate on initiatives and action plans, to demonstrate their leadership role and responsibility of the universities in the 21st century. The roundtable session featured the presence of Deputy Minister Nguyen Huu Do of MOET, President Mai Lan and education leaders of five top universities in Vietnam. Upon fruitful discussion, university leaders agreed to sign a joint statement on working together and reaffirm their commitment to implement initiatives and action plans. Also, with the support of College of Arts and Sciences, Continuing Education Department (MOET) launched the Workshop on learning organizations under the framework of the Learning and Teaching Summit, chaired by Deputy Minister Nguyen Huu Do, which attracted more than 80 educators, researchers, and practitioners.

FAS taught every single VinUniversity students through a large number of classes in the AY20-21, with about 88 classes, teaching 2665 students across the university.

We also successfully delivered the Pathway and Academic English programmes to help 219 students improve their English.

Development of 20+ subjects with full teaching materials followed the standard quality assurance process (application of Co-Design Workshops to create and validate all FAS courses with external experts in the field).

TEACHING HIGHLIGHTS

High quality and capable full-time faculty were recruited globally, meeting VinUni’s expectations for teaching and/or research and service, as well as organizational culture. FAS has the highest percentage of international faculty among all the Colleges and faculties.

- Most of FAS faculty were nominated in the teaching award list and won teaching prizes for AY 2020-2021.**
- ▶ Mr. Dan Ruelle won the teaching excellence award for AY 2020 – 2021.
 - ▶ English Teaching Team (Dan – Stephen – Rory) was awarded teaching excellence prizes for AY 2020 – 2021.
 - ▶ Most FAS faculty received 4.0 in student evaluation with mode of 4.5.

- Dr Billy Wheeler’s paper “The Motherboard of Myriad Things: Daoism, Zhuangzi and the Internet” has been accepted for publication in Asian Studies - A leading journal in the study of Asian societies and cultures.**
- ▶ This paper is the first major output of his seed grant project “Vietnam and Industry 4.0: Philosophical and Ethical Foundations.”
 - ▶ Dr Billy Wheeler wishes to thank VinUniversity for the financial support and insightful comments through Faculty Research Seminar on an early draft of the ideas in the paper.

- Dr. Anupama Devendrakumar delivered an insightful faculty seminar on Globalization and Asia’s Post-Pandemic Order: How Can ASEAN Respond?**
- ▶ The study examined how the nature of globalization in Asia might change and shape the post-pandemic order.
 - ▶ Policies and interventions were discussed to help ASEAN countries to recover and build the future.

Active learning with student-centered approach was adopted and implemented across all FAS disciplines, e.g. application of team-based learning, project-based learning, game-based learning, experiential learning, application of technology into teaching, personalized and tutorial approach, successful transformation of government-mandated ideology subjects into multi-angle and active learning ones with fieldwork trips to expose students to real societal conditions.

Students’ transformation going from high-school into a university environment: students learnt new life skills – from self-administration to caring for others and living and working full-time in student dormitories and on campus, became more confident and competent in speech and writing, grew more nuanced in their outlook, and got exposed to many perspectives from the social sciences and humanities.

- Dr. Anupama Devendrakumar was invited by the European University of Cyprus to deliver an insightful online lecture on Tuesday, 30th November 2021.**
- ▶ The topic is “Covid-19 and ASEAN’s Responses”
 - ▶ More than 100 first-year law students attended the lecture.

- Dr. Jason Picard presented a paper titled “Tours of Duty”: Shaping the Vietnamese Nation Through Journeys on the Hồ Chí Minh Trail” at the 6th International Conference on Vietnamese Studies.**
- ▶ Those who toured the “Trail” half a century ago did so as men and women committed to the dual objectives of “national salvation” [cứu nước] and “reunification” [thống nhất] of Vietnam.
 - ▶ Indeed, between 1959 and 1975, over two million soldiers, political cadres and youth volunteers traversed it.
 - ▶ This paper examines the question: how did a “tour” of such awesome size affect Vietnam and those who participated?

- Dr. David Koh participated in a Webinar on Southeast Asia’s Covid-19 Pandemic Battle that was organized by the Nehginpao Kipgen Center for Southeast Asian Studies, Jindal School of International Studies of the O.P. Jindal Global University**
- ▶ The Webinar was held in a roundtable format, under Chatham House Rules.
 - ▶ Dr. Koh outlined the responses of Vietnam towards the COVID-19, on how the country is now facing an uphill task in obtaining vaccines, moving to a new strategy of living with the virus, and to opening up the country again.
 - ▶ Myanmar, Malaysia, Indonesia, Thailand, and the Philippines representative speakers also share the same regards.

OASIS

Orientation|Advising|Study Skills|Identity/Diversity|Community Service Learning (OASIS) is one of the most important subjects at VinUniversity for students, helping them to transition from high school to university and expand their potential.

- ▶ **Orientation** - The Orientation Week Program is a cognitively informative, emotionally touching, and behaviorally engaging program to help students identify with VinUni and feel valued so that their commitment to VinUni is ignited. Students are engaged with several bonding activities in Orientation week to get along with campus, GenEd curriculum, and other support services, facilities and resources to equip themselves for their next chapter of their studying journey.
- ▶ **Advising** - Students are welcomed by and discussed with faculty advisors to help them identity their potential strength points and encourage students to navigate their Individual development plan for their own.

- ▶ **Study Skills** - Introduce 6 skills in flipped classroom mode with facilitation by sophomores to freshmen: IKIGAI, effective reading, data collection, presentation, time management...
- ▶ **Identity/Diversity** - cultivate a self-consciousness, self-awareness among students.
- ▶ **Community Service Learning** - collaborate with many third parties in NGO field such as the Center for Supporting Community Development Initiatives (SCDI), Save Vietnam Wildlife (SVW)... to create opportunities for students to join community service activities, and encourage them to proactively attend to social activities.

OASIS

FIGURES IN SHORT

<div>+2</div> <div>New VinUni Seed Funding Projects</div>	<div>1</div> <div>Research Grant valued</div>	<div>GBP 25,000</div> <div>by British council</div>	
<div>2</div> <div>Published ISI Articles</div>	<div>8</div> <div>New Publications</div>	<div>3,109</div> <div>Teaching Hours</div>	<div>2,665</div> <div>Students Taught</div>
<div>88</div> <div>Classes</div>	<div>27</div> <div>Courses</div>	<div>2 Subjects Developed</div> <div>National Defense Education and Introduction to Law</div>	
<div>USD 51,430</div> <div>Seed Grant Funded</div>		<div>5</div> <div>Research Groups</div>	<div>1</div> <div>Monograph Book by Dr. Anupama</div>

Research Activities



At VinUniversity, we are committed to conducting and supporting impactful research that will benefit Vietnam and the world. We continue to invest in hiring and supporting highly reputed faculty who are active in their research, at different stages of their career. We continue to pursue research collaborations with respected researchers in Vietnam and abroad. The Smart Health Center, recently established in partnership with the University of Illinois Urbana-Champaign (UIUC), is a flagship program for this type of collaboration. We are committed to providing significant research immersion activities for VinUniversity undergraduate students, whether it is as a Research Assistant to faculty, via independent research projects, or in course-embedded research. Building a research enterprise takes time and significant sustained effort over a long period of time. We are confident that our passion and persistence will lead us to success in the pursuit of this goal.

- Professor Laurent El-Ghaoui
Vice Provost for Research and Innovation,
Dean of the College of Computer Science and Engineering

FIELDS OF RESEARCH FOCUS

- ▶ Smart Health
- ▶ Smart Service
- ▶ Smart and Sustainable Tourism
- ▶ Digital Economy fueled by Artificial Intelligence and Big Data
- ▶ Infectious Diseases
- ▶ Youth Lived Experiences



110
Papers Published in
Scopus Indexed Journals

17
Seed Funding
Projects

15 new faculty received Seed Funding for their research, for a total of about \$700 K USD or 16 billion VND.

In addition, three students were awarded research grants totaling about
\$1,000
for pursuing independent research projects under the guidance of experienced faculty members.

4
External Research Proposals Submitted

VinUni faculty submitted six proposals for external funding and received about \$400K or 10 billion VND in external funding from Vietnamese and international funding organizations for three research proposals.

TOP RESEARCHERS



Professor Wray Buntine, Program Director for the Computer Science program is a distinguished scholar in the area of machine learning. His research focuses on developing probabilistic methods for document and text analysis, social networks, data mining and machine learning. He has over 200 academic publications, several software products and two patents.



Professor Laurent El-Ghaoui, Dean of the College of Computer Science and Engineering, is a highly respected scholar in New computational models and deep learning algorithms. His research focuses on machine learning and statistics, with an emphasis on sparsity issues. He is a highly cited scholar, and has served as conference chair and plenary speaker at many conferences.



Professor Pranee Liamputtong is a medical anthropologist and has interest in the health of women, children, immigrants, refugees, older people, and transgender individuals. She is an expert in qualitative research methods highly cited scholar, and the author of several textbooks (Qualitative Research Methods, Research Methods in Health and Evidence-Based Practice, Social Determinants of Health, & Public Health) that have been adopted widely at universities.



Professor Andrew Taylor Robinson is an infectious disease immunologist specializing in mosquito-borne pathogens. He has over 300 highly cited publications in peer-reviewed journals. His current research interests are more in applied investigations, with a clinical focus encompassing epidemiology, treatment, prevention and control of diseases of poverty, as well as infection outbreak preparedness and response.

PUBLISHED RESEARCH

VinUni full-time and affiliated faculty published 110 articles in SCOPUS indexed journals during the academic year 2021-22. Over 70% of the journal articles were published in Q1 and Q2 rated journals.

FAS	CBM	CECS	CHS	Grand Total
3	11	28	68	110



Entrepreneurship Lab

Entrepreneurship Lab (Elab) is the core component of VinUniversity's Entrepreneurship framework that seeks to inspire, connect, and empower students and faculty to develop entrepreneurial mindset and skills. The ultimate goals are to foster a supporting culture and a close-knit community of entrepreneurs via a vibrant physical space, mentoring program, workshops, community series, and competitions.

1. Design entrepreneurship framework

Entrepreneurship Framework at VinUniversity was developed as a guidebook and action plan for all entrepreneurship-related programs/activities across all colleges for students, faculty members, and staff. The framework clearly defines three pathways, namely Entrepreneurship for Everyone, Entrepreneurs of All Kind, and Research & Innovation, which employ effectively resources from VinUni entrepreneurship ecosystem and constitute the entrepreneurship journey for all VinUnians, regardless of their fields, vision, and goals.

2. Foster entrepreneurial spirit from early stage

In December 2022, over 230 freshmen from 3 colleges participated in the 2nd hackathon revolved around the topic "Circular Economy and Sustainable Tourism in Hoi An", organized in collaboration with Quang Nam Tourism Association. Within 36 hours, over 40 sustainable initiatives were developed and presented to industry and academic experts. The program successfully provides students with fundamental skills beneficial to their journey to become pioneering leaders and to promote constructivism in trying to solve major social challenges.

3. Nurture entrepreneurial mindsets through fun competition

To encourage entrepreneurial spirit in young minds and identify potential ideas/team for the upcoming start-up incubation, Elab launched the Big Idea Competition in April 2022, a playground for high school and university students across Vietnam to communicate their impactful ideas which align with the 17 Sustainable Development Goals by the UN. The Competition (operated on a total budget of only 4,500 USD) also provides a series of side events to help students create and develop their ideas. Key figures achieved from the competitions are:

- ▶ 250 registrations with over 100 online participants for online seminar on impactful young entrepreneurs and over 1000 views of video replay;
- ▶ Over 90 registrations from students and professionals in the impact field and 40 online participants for an in-depth workshop on Sustainable Development Goals led by Professor Mark Milstein of Cornell University;
- ▶ 41 submissions, 85 participants;
- ▶ A combined of over 2.2 million views on TikTok platform (as of 26 May);
- ▶ Launching event and award ceremony, attracting around 100 VinUnians.

4. Launch ideas into viable businesses

On May 28, Elab's Incubation Program, in collaboration with VinUniversity student-led network UpYouth was officially launched as the next step in incubating entrepreneurial ideas. Some key figures from the launching day are:

- ▶ Attended by 20 C-level executives and founders from leading start-ups and Venture Capital firms;
- ▶ Over 650 registrations, over 400 participants, including students from over 30 universities and highschoolers from over 20 schools, start-up support organisations, and other ecosystem stakeholders;
- ▶ 4Featured extensively on national media, including VTV4, HTV, Hanoi ITV, Vietnambiz, etc.

Ten teams from VinUniversity will be chosen to receive extensive training, in-depth workshops, and mentoring sessions with leading industry experts and entrepreneurs. Each team will also receive a seed funding of 2,000 USD to further develop their projects. Following the completion of the Incubation Program, a Demo Day will be organised, and we anticipate inviting a panel of angel investors and venture capital firms to assess and evaluate student start-ups. This program serves as a launchpad for start-ups by VinUnians and a reliable companion during their journey of growing their business ideas until they are mature enough to enter the accelerator program.

5. Thrive as a community

In the academic year 2021-2022, Elab launched the Start-up Community Series with two successful events on Improvisation and Team Leadership. This monthly event provides a relaxing environment for VinUni students to learn about entrepreneurship, interact with guest speakers, network, and have fun between classes and assignments. So far, the event format has received positive feedback from over 80 participants across two events.

6. Mentoring support for early ideas and teams

Elab will continue to develop the Entrepreneurs-in-Residence (EiR) and Mentoring Program, which offers students mentorship and guidance from the country's leading experts and entrepreneurs. Any students, with or without an idea, can book mentoring sessions to discuss their concerns, receive guidance on how to formulate, develop, and launch their ideas. They will also learn how to seek the right resources and find their co-founders, team members. This program is designed in a way that is fully accessible, private, and pressure-free. In the academic year 2021-2022 we piloted with 2 EiRs/Mentors, mentoring around 10 start-ups teams at an early stage to better understand students' needs. Since March to June 2022, around 30 sessions were conducted, composed of nearly 100 hours between mentors and mentees. Since launching, teams in the mentoring programs have achieved notable success, such as Top 5 Kawai Start-up Fair, Top 3 Ra Khoi – Bring Your Ideas to Life Competition, Top 3 Popular Big Idea Competition.

7. Build a home of entrepreneurship

In the next academic year 2022-2023, Elab's physical space will offer open, flexible, and dynamic collaboration and coworking space for the entire VinUni's community. The physical space of ELab will be completed in June/July with an official Opening Day in October. This will include a Design Thinking Room, conference & creative hall, meeting rooms and other multi-purpose space for both students and faculty. The space is designed to foster creativity and to create a soothing ambiance for its guests hoping to become the first venue choice that comes to mind for anyone interested in entrepreneurship.



“

Everyone is an entrepreneur at heart.

- Phi Thi Linh Giang, PhD
Acting Academic Director, Entrepreneurship Lab

Teaching & Learning

“

Teaching is at the core of our mission to prepare the next generation of capable, motivated and responsible contributors and leaders. We take this responsibility very seriously and continue to invest significant resources and effort to introduce and incorporate evidence based approaches in our teaching, to support our faculty in innovating, taking risks and to enhance student learning and engagement in all dimensions.

- **David Harrison**

Vice Provost for Academic Affairs



“

At VinUniversity, we have a diverse faculty who are all committed to innovation in active learning approaches. To continuously improve and share best practices, our faculty take part in various initiatives like the Open Classroom Week (to foster peer observation), Lunch and Learn (community of practice), Lifelong Learning (continuous professional development), and the recent Teaching and Learning Summit. These activities help our already outstanding faculty continue to innovate and build communities of practice both inside and outside the VinUniversity campus.

- **Daniel Ruelle**

Co-Chair, Learning Excellence Committee, VinUniversity

TEACHING AND LEARNING NEWSLETTERS

The center for learning Excellence published 17 newsletters in the AY 2021-22, covering topics ranging from classroom technology, best practice tips and strategies for teaching and student learning, a “faculty corner” in which we feature one faculty member who is doing something innovative in their course.



TRAINING IN PEDAGOGICAL METHODS

VinUni faculty participated in intensive multi-day training programs during this academic year:

- ▶ A certificate course delivered by Intedashboard on Team Based Learning (TBL). Over 10 faculty received certifications in TBL. TBL is being piloted in three courses at VinUni and we plan to expand usage of TBL as a pedagogical method over the next few semesters.
- ▶ And a Case Based Teaching and Case-Writing (CBT) course delivered by Singapore Management University (SMU). Over 10 faculty received their certificates for CBT; five teaching cases were written as part of the workshop. These cases will soon be published with VinUniversity affiliation.



ONGOING LEARNING SERIES

Over the course of the academic year, we conducted over 20 lunch and learn and other informal learning sessions in which faculty and staff shared tips and strategies for enhancing their teaching practices. Topics included the use of technology to engage students, designing effective assessments, recognizing and helping students to cope with mental stress, creating impactful teaching videos, effective use of Learning Management Systems, academic integrity and academic regulations, student team projects, etc. Faculty take turns presenting at these sessions, thus helping to build a community of teacher-learners and giving the opportunity to all faculty members to discuss and present to their colleagues and get feedback.



OPEN CLASSROOM WEEK

Inspired by similar events at Cornell University and Yale University, VinUniversity hosted its first Open Classroom week in April. From April 25 to 29, 2022, thirteen VinUniversity professors from four colleges opened 19 teaching sessions to fellow educators, teaching assistants and staff members in the spirit of building an all-inclusive, organic learning community that encourages peer learning through classroom visits and discussions. Each day of the Open Classroom Week ended with a social hour with robust conversations between visitors and hosts about teaching and learning. The final day of the program ended with a dinner to thank the hosts for opening their classrooms.

Read more about the event here:

<https://vinuni.edu.vn/open-classroom-week-2022-building-an-open-learning-community-at-vinuniversity/>

Open Classroom Week 2022 Hosts



“

It's just so good to talk with my peers focusing on the issue of practice because it is very important that we improve our skills. I think that's one of the broad takeaways: getting us together, communicating with each other as faculty, and talking about active learning. I think it is very important.

- **Wray Buntine, Program Director**
College of Engineering & Computer Science

“

I really like the Open Classroom Week because it gives us the opportunity to explore teaching methodology, the classroom environment, and differences between different disciplines. I think it is a good opportunity for me to receive some feedback from experienced lecturers. I hope that we can continue this idea so that we can have the whole teaching and learning festival.

- **Le Duy Dung, Professor**
College of Engineering and Computer Science

TEACHING AND LEARNING SUMMIT, 2022 AT VINUNIVERSITY

The capstone event for the year was the inaugural Teaching & Learning Summit hosted by VinUniversity on June 17 & 18 on the VinUniversity campus. Nearly 400 attendees from Vietnam and abroad attended 25 sessions over two days. With inspiring keynote speeches by Professor Sanjay Sarma from MIT and Professor Robert Kamei from Duke-NUS, Singapore, over 50 speakers from international and Vietnamese universities, and a separate track for health professions education, the Summit attracted wide media attention in Vietnam. The Summit was co-organized by the MOET Continuing Education Department and Vietnam National University in Hanoi. Presidents, provosts and other leaders from several universities in Vietnam attended the Summit.

The Summit also featured a University Leaders Roundtable chaired by President Le Mai Lan of VinUniversity. Representatives from the Ministry of Education and Training (MOET) and several higher education institutions attended the Roundtable. The following universities are the founding members of the Roundtable:

- ▶ Vietnam National University, Hanoi (VNU HN)
- ▶ Ho Chi Minh City University of Technology, Vietnam National University, Ho Chi Minh City (HCMUT)
- ▶ University of Social Sciences and Humanities – Vietnam National University, Hanoi (USSH, VNU)
- ▶ Fulbright University (FUV)
- ▶ Ho Chi Minh City Open University (HOU)
- ▶ VinUniversity (VinUni)

With the theme of “The leadership role of the university in the 21st century”, the Roundtable focused on five discussion topics, including: i) Digital transformation in higher education; ii) Equality in education; iii) Social/ community responsibility of universities; iv) Connection/ cooperation among higher education, continuing education, and secondary education, and v) The role of universities in innovation and entrepreneurship ecosystem. The six participating universities released a joint statement affirming their commitment to work together to lead and promote initiatives to strengthen the educational eco-system in Vietnam.



Student Experience

“

My first-year experience at VinUniversity has been nothing short of exciting. During the period of 11 months, I took up various ECA and projects. Initially, I was hesitant to take up leadership roles such as proposing a new club or running for President. However, with my intrinsic motivation and the support from peers, I gained the courage to step out of my comfort zone. For that, I am very thankful, because these opportunities boosted my confidence in public speaking, helped strengthen my resilience, and improved my teamwork skills. I hope in the upcoming academic year, I could continue to bring more enthusiasm and positivity to my community.

- **Dau Thanh Thao**
President of Student Council



STUDENT COUNCIL

In June 2022, the Student Council President of VinUniversity was elected along with 5 other representatives:

Dau Thanh Thao
President & Head of Rules

Nguyen Ngoc Huyen
Head of Community Engagement

Pham Phuong Dung
Head of Welfare

Nguyen Dieu Quynh Anh
Head of Public Affairs

Tran Khanh Chi
Head of Academic Life

Kieu Manh Linh
Head of Operations

Nguyen Canh Huy
Secretary

STUDENT CLUBS

VinUniversity students are actively engaged in extracurricular activities. The key student clubs for last year are:

OnSet
PRISM
Vin Pioneers
Vin-A-House
VinMagazine
VinMaker Society
VinUni Badminton Club
VinUni Basketball Team
VinUni Business Insider
VinUni Career Hub
VinUni Culture Club
VinUni Chess Club
VinUni Debating Community
VinUni Football Club
VinUni Hacking Club
VinUni Harmony
VinUni Rack N Roll
VinUni Research Club
VinUnity
VinViVid

DORM LIFE

All first-year students were required to stay in the designed dormitories on campus. Together they formed second families regardless of the financial, geographical, and social backgrounds that they came from.

“

We frequently organized games and activities to enjoy together. We filmed fun vlogs, danced, and performed comedy acts. I miss the times when we lay on the rooftop and gazed at the stars while talking about our dreams and aspirations. Next year we decided to rent an apartment to live with each other again, because my roommates were my missing family members.

- **Bui Hong Nhung**
CBM student

COMPETITIONS

Hackathon 2021

In this season of Hackathon, VinUniversity students had to tackle with Hoi An’s major problems, such as the 37,188+ tons of waste generated in 2019; the large amount of fat, oil, and grease discharged by hotels and businesses into the city’s drainage system; the local tourism industry’s dominant share in non-renewable energy consumption and the overlooked issue of heritage conservation in the midst of mass tourism’s accelerated growth and so on. Instead of cliché theoretical exams, this comes as an opportunity for our students to directly contribute to the tourism industry right in their home country.



VinUniversity Global Case Competition (VGCC)

VGCC is an international event in which the best students from all over the world can compete to solve a business problem for a chance to engage with top industry leaders and academic scholars and win up to \$USD 10,000. This annual competition is hosted by VinUniversity, a not-for-profit university in Vietnam, with advice and mentorship from faculty and experts at Cornell University. The theme of the 2021 competition was “VinFast Goes Global”, with over 4,000 students from over 200 universities from 30 countries formed 1,085 teams to participate in the competition.



EVENTS

The New Academic Year Ceremony

The message for the new 2021-2022 academic year is “Excel 2gether”. VinUni faculty and students are determined to achieve excellence through 3 important directions.

- ▶ Educating real-world talents
 - ▶ Conducting research to serve humanity
 - ▶ Developing international academic partnerships
- With these invaluable strategic advantages, VinUni faculty and students are determined to strive and win, contributing to the betterment of life, society and the world!

Career Day

For the very first time, VinUniversity is organizing the Career Day to invite respected corporate partners, institutions, and international organizations to our beautiful campus in Hanoi to meet and engage with the VinUni community of talented students and faculty members. This is an excellent occasion for the corporate and external partners and VinUni community to network, exchange ideas, share experience, provide career consultation, and much more. Reputable businesses such as EY, KPMG, Toyota, Corning, AON, Salesforce, SSI, ACB, Viettel, FPT, etc. as well as leading companies of the Vingroup's ecosystem including VinFast, Vinhomes, Vinmec, VinAI has participated in VinUniversity's first Career Day.

Winter Festival

With the theme “Diversity and Inclusion”, the Winter Festival at VinUniversity has created a magical world called “Vinwarts” inspired by the Harry Potter novels, bringing to all VinUnians unforgettable memories and emotions.

With talents, creativity and passion, the teachers and the students have brought extraordinary performances. Through a profound and heartfelt musical performance, they have told a meaningful story about cultural integration and diversity of nationality, personality, and background. That magical world of Vinwarts is also VinUniveristy - a place that upholds the spirit of solidarity and respect for the differences of individuals.



Earth Day

The Student Affairs Management and Residence Life Office wish to launch a Green Living Campaign to encourage students to save electricity and protect the environment. Wasting electricity and not turning off electrical equipment when not in use are still happening at VinUni as well as VinUni dorm. And VinDorm “Earth Hour” is an event in that campaign where students sat, sang together and relieved stress before the upcoming final exams during one hour. Student turned off all unnecessary lights and electrical equipment, then take the stairs down to 1st floor to let their hair down and have some fun.



End of Academic Year Celebration

On 18 June, VinUniversity faculty and students together participated in the closing ceremony of the academic year 2021-2022 at the “SAND-TASTIC” party on the Pearl beach of Vinhomes Ocean Park. With the theme of empathy and appreciation, the students looked back on a proud journey full of challenges and showed their gratitude to the people who have always been their companions and supported them.



WORK-STUDY PROGRAM

Students get the chance to experience the professional working environment early on at VinUniversity. The Work-Study program allows students to work as teaching and research assistants and to provide administrative support while earning a small income. A total of almost 200 students in turn participated, with the budget of almost 2 billion VND.

“I learned basic business etiquette, such as how to greet business partners, how to shake hands, and how to exchange business cards,” shared Tran Phuoc Lam Duy, an intern at the Marketing and Admission department.



STUDENT CLUBS

VinUniversity focuses on grooming students holistically and looks for opportunities to enable students to take leadership positions. VinUniversity now has 21 active student-run clubs and societies, with 93% participation rate from all students.



COMMUNITY PROJECTS

Young Change Maker (YCM) is a non-profit project with the slogan: “Young people act for young people”. Our main product is an online platform for young people from 15 to 18 years old who want to learn about industry groups and orient themselves in the labor market.

Through 4 free online services built specifically, according to the personalized roadmap, including Mentoring, Industry Knowledge, Skills Training and Project Connectivity, students will experience vocational education services in an in-depth and effective way to understand themselves, the labor market, and networking. In addition, with its noble community mission, YCM continuously implements practical programs to reach closer to the beneficiaries. This summer, YCM’s BusEZ journey will visit 5 schools in the North and Central regions of Vietnam to offer a range of essential industry skills to high school students across the country.

“

VinUni Culture Club was an indispensable part of my freshman experience. Our club is not just a social hub, it is also kind of a family for all team members. The smile on our members’ faces and their happiness are motivating forces that push me and my team forward to further improve our club!

- Le Trung Kien
President of VinUni Culture Club

“

Our job at VinMagazine is to give students a platform to share their thoughts and opinions. Throughout the past year, I have learned a lot from both our writers and my teammates about the power of delegation, communication, and about always being meticulous.

- Giap Vu Nam Duong
Editor in Chief, VinMagazine

“

Joining student clubs or societies is a great way to develop your leadership skills, learn new things, and make friends who share mutual interests.

- Nguyen Anh Ngoc
Head of Student Affairs Management

Library & Learning Resources

Our Library is one of the best academic libraries in Vietnam, especially in health and medical sciences. It holds the largest health sciences collection with access to 6,311 medical journals and 7467 prints and electronic titles. It is also the first academic library in the country to deploy the cutting-edge Ex-Libris integrated library system to facilitate easy access to library resources. The library is digital-resource bound with 65% of the library resources being electronic, focusing on the use of digital technologies in a contextual way including 24/7 remote access, e-reserve, library portal, RFID, self-serve check-out, Internet of things, virtual exhibit and webchat services.

With a large holding of printed and electronic resources, the library has continued to provide a quality and balanced collection to support VinUniversity’s teaching, learning, and research. The library made a strong commitment to maximizing the use of OER and open textbooks to support open access and reduce students’ textbook costs. To foster students’ digital fluency and bolster student success, the library has conducted a number of workshops on electronic publishing, research skills, academic integrity, and VR technology training. The library has also played a key role in supporting research and helping the university to track the faculty’s research footprint, and became the first member of the ORCID community in Vietnam. The library has also played a role to support Vingroup Pls leaders, providing digital library access to them for research and information use via the lifelong learning initiative.

“The VinUniversity Library is not just a physical space for holding books, it is a knowledge repository, a training space, and a point of meeting for creative minds”, said Mr. Tony Tin, the Director of Library and Learning Resources.

VinUniveristy Library also features a number of high-tech facilities for both student and faculty use, namely:

- ▶ One Button Studio (OBS)
- ▶ Semi-Professional Studio
- ▶ Maker Innovation Space

“

The library is one of the favorite places in VinUni for students. It is the best place where knowledge begins, research thrives, and students flourish.

- Tony Tin
Director, Library & Learning Resources



Faculty Use			
4,265 Discussion Room Bookings	203,000,000 E-Resources	21,657 Library Website Visits	200 Tech Room Bookings
4,267 Prints	77,370 Database Use	3,003 Book Loans	360 Databases
41,078 Physical Visits		25 Workshops	

External Engagement

External Engagement (EE) Department is in charge of establishing and developing collaborative relationship between VinUniversity and its academic and corporate partners. In addition, the Department manages several Vingroup-sponsored programs such as the Vingroup Science and Technology Scholarship Program for Overseas Study for Master's and Ph.D. Degrees (<https://scholarships.vinuni.edu.vn/>).



In the Academic Engagement aspect, in the Academic Year 2021-2022, EE reached 26 new agreements and letters of intent regarding academic exchange and cooperation programs in education and research, including dual degrees, student exchange, faculty exchange, visiting scholars, and joint research with 18 institutions in 11 countries. Notably, VinUni has established sequential Bachelor's-Master's degree programs in various modules (either 3+2 or 3.5+2) beginning in the academic year 2023-2024 with the University of Queensland and the University of Technology Sydney (Australia), and the University of California, San Diego (USA). Regarding global mobility efforts, 60 exchange opportunities per semester starting from Spring Term 2023 to 19 universities and research institutions around the world have been created for VinUni students as the result of these agreements.

Figure 1: Signing ceremony of academic exchange agreement with the University of California, San Diego

With **Corporate Engagement**, through lasting exchange relationships with esteemed companies and organizations, VinUni aims to equip students with valuable, distinctive internship and employment opportunities that help broaden their experience, professionalism, and networking, as well as enhance their employability. To that end, the Corporate Engagement efforts were met with remarkable successes in the Academic Year 2021-2022 as VinUni continued to establish partnership with leading companies. During this reporting period, VinUni reached 10 new agreements with industry leaders across diverse business fields, such as Vietnam Airlines, FPT Telecom, InterContinental Hotels Group, Marriott Business Council Vietnam-Cambodia, Techcombank, Woori Bank, Vinhomes, Vincom Retail, and Vinschool. Thanks to these collaborations, VinUni students have enjoyed an expanding portfolios of prospective employers and have had more opportunities to develop professionally through internships, mentorships, industry guest speakers, and case study.



Figure 2: Agreement signing ceremonies with some leading companies in AY 2021-2022 including Techcombank, Woori Bank, Marriot Business Council Vietnam-Cambodia, and FPT Telecom.

On 23 April, 2022, EE led the corporate engagement and career service efforts, to successfully organize the very first Career Day with the participation of 33 companies and organizations representing 10 industries. The event was well attended by more than 650 participants including industry guests, students, faculty, and staff. Reputable enterprises such as EY, KPMG, Toyota Motor Vietnam, Corning, AON, Salesforce, SSI Securities, Asia Commercial Bank, Viettel Group, FPT, etc. as well as leading companies of the Vingroup's ecosystem such as VinFast, Vinhomes, Vinmec, VinAI participated in VinUniversity's first Career Day. Overall, the corporate partners highly appreciated the event; 100% strongly indicated that they would attend future VinUni's Career Days and events. As a result of these interactions, one specific outcome was that over 30 students were offered internships or mentorships post-event. More importantly, through this Career Day event, companies and organizations have first hands interaction with VinUni students and were impressed on how strong and capable our students are.



Figure 3: VinUniversity's First Career Day 23 April 2022

For the students, the event carried more values than just offering them an internship position. Let's hear the sharing of one of the students who is now interning at LG Display after attending the Career Day.

"I think the Career Day was different from what I expected at first. Rather than being merely a networking event, it was planned as a comprehensive event with a variety of learning activities and preparation sessions. I got the opportunity to connect with people from a variety of industries, including finance, technology, and NGOs and NPOs. Career Day, in my opinion, is a fantastic opportunity to connect students with potential employers. In fact, the event provided me with an opportunity to network with my current leader at LG Display Vietnam Hai Phong Co., Ltd.

As a result, I am currently working at the Organization and Culture Division, which is a subpart of the Human Resource Department. I was able to learn a lot more about the skillset and specific tools during the last three weeks, as well as participate in internal training sessions regarding leadership, event organizing, and public speaking. Furthermore, since LG is a globally renowned corporation, I am learning from experienced colleagues as well as the company's professional standardized procedures. Therefore, I am enjoying my time at the firm and I really appreciate VinUni for organizing this event. And I'm looking forward to future Career Days with much more diverse participants and engaging activities for VinUni students."

- Mr. Le Minh

2nd year student, Bachelor of Business Administration
College of Business and Management, VinUniversity



The Career Day can be considered as one of VinUni's initial successes in attracting leading recruiters even though VinUni students are still in their first and second year. The students had a chance to interact directly with enterprises to know more about the industries and career opportunities, actively participated in the Career "Speed-dating" with recruiters and round-table discussions with industrial representatives and VinUni's leaders, faculty, and staff. All shared the same mission to develop talents for the future.

“

The External Engagement Team aspires to become effective opportunity enablers who explore and develop mutually beneficial relationships with corporate and academic partners. Our aim is to bring the world to VinUni and VinUni to the world.

- Ms. Hanh Bui

Head of External Engagement







Vinhomes Ocean Park, Gia Lam District, Hanoi.

 info@vinuni.edu.vn

 +84-2471089779

 vinuni.edu.vn