

Crosswinds



Engineering the Future: Innovation, Sustainability & Global Impact

From Human-Powered Submarines to Solar Seas and Sustainable Solutions,
Kumaraguru Students are Shaping Tomorrow.

Country Lens on
Vietnam



JULY 2026
ISSUE NO.07

Spotlight on
HUTECH University of Technology

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Vietnam



Engineering the Future: Innovation, Sustainability & Global Impact

Innovation thrives when curiosity meets purpose. At Kumaraguru Institutions, students are not merely learning engineering principles in classrooms—they are applying them to solve real-world challenges, advancing sustainable technologies, and representing India on some of the world's most prestigious engineering platforms. This month, three remarkable student teams exemplify how innovation, sustainability, and youth leadership converge to create solutions with global relevance.

From navigating the seas with clean-energy electric boats to harnessing the power of wind and exploring the depths of the ocean through human-powered submarines, Kumaraguru students are demonstrating that engineering is most impactful when driven by purpose. Their participation in internationally acclaimed competitions is a testament to the institution's commitment to experiential learning, interdisciplinary collaboration, and research-led innovation.

Team Sea Sakthi, with its latest electric boat **Yali 5.0**, continues its journey of engineering excellence at the **Monaco Energy Boat Challenge**, one of the world's foremost competitions dedicated to sustainable marine mobility. Building on the legacy of previous Yali prototypes, the team is developing cleaner, smarter, and more efficient marine technologies that contribute to the future of sustainable transportation.

Representing India at the **European International Submarine Races (eISR) 2026, INCRAFT** is pushing engineering beyond conventional boundaries. By designing and building a Human-Powered Submarine, students are applying advanced concepts in hydrodynamics, structural engineering, propulsion systems, and manufacturing while competing alongside leading universities from across the world. Their work reflects the spirit of innovation that lies beneath every great engineering breakthrough.

Meanwhile, **Team Sulal** is harnessing the power of renewable energy through the design and development of high-performance **Horizontal Axis Wind Turbines**. As they prepare to compete at the **International Small Wind Turbine Contest (ISWTC) 2026 in the Netherlands**, the team is demonstrating how engineering can address one of the world's greatest challenges—creating clean, sustainable, and accessible energy solutions for the future.

These projects are more than competition entries. They are living laboratories where students learn to innovate, collaborate across disciplines, manage complex projects, engage with industry, and compete on international stages. Every prototype, every design iteration, and every competition strengthens not only technical expertise but also resilience, creativity, leadership, and global citizenship.

Follow their inspiring journey through the KCT, Kumaraguru Institutions, and K-GEO social media channels.

Team Sea Sakthi – Powering the Future of Sustainable Marine Mobility – an innovative student team from Kumaraguru Institutions dedicated to designing and developing environmentally friendly electric boats that redefine sustainable marine transportation. Bringing together students from multiple disciplines, the team works on boat design, electric propulsion, battery management, control systems, manufacturing, operations, and industry partnerships. Through this hands-on project, students gain practical engineering experience while contributing to clean-energy solutions for the maritime industry.

Driven by innovation and sustainability, Team Sea Sakthi reflects Kumaraguru's vision of developing engineers who create technologies with real-world impact. The team has consistently represented India on prestigious international platforms, including the Monaco Energy Boat Challenge and the Sardinia Innovative Boat Week (Italy), where they have showcased cutting-edge electric boat technologies alongside leading universities and industry innovators from around the world.

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COVER STORY

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Cover Story

Competition Spotlight – The Monaco Energy Boat Challenge, organised by the **Yacht Club de Monaco**, is a premier global competition for sustainable marine mobility, where teams develop innovative electric, hydrogen, and alternative-energy boats. Team Sea Sakthi also participated in **Sardinia Innovative Boat Week (Italy)**, showcasing next-generation marine technologies. Together, these platforms enable the team to benchmark innovations, collaborate with global experts, and highlight India's engineering excellence.



TEAM SEA SAKTHI – Raghav A, Sharan B, Harith S, Kabilesh A, Bavin V, Nirmal M, Danya S, Aishwarya P, Reshma S A, Vishruti Pravin Kumar, Harshini Illavarasu, Nimeswaran P

Team Sulal, operating under Ré – Research, Innovation, Design & Entrepreneurship at Kumaraguru Institutions, focuses on designing and developing high-performance Horizontal Axis Wind Turbines (HAWT) for clean energy generation. The team integrates advanced aerodynamics, structural engineering, electrical systems, and sustainable materials such as bio-based carbon fibre and kenaf composites to create innovative renewable energy solutions.

The project provides students with an interdisciplinary platform to apply engineering principles to real-world sustainability challenges while fostering innovation, research, and entrepreneurship. Team Sulal embodies Kumaraguru's dedication to advancing renewable energy technologies and preparing globally competent engineers.



— • COVER STORY • —

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— HARNESS. SUSTAIN. EMPOWER. —





TEAM SULAL – Suganthan, Naveen, Vinoth, Kavın, Akil, Vinmitha, Vishali, Pon Harshika, Jaya Shree, Varshaa, Siva Ganesh, Lokeshmurugan, Abhishek Priyan

Competition Spotlight – The International Small Wind Turbine Contest (ISWTC) 2026, hosted by **Hanze University of Applied Sciences, Groningen, Netherlands**, is a globally recognized competition for university teams developing small wind turbines. Participants are evaluated on engineering design, innovation, sustainability, business viability, and turbine performance. Team Sulal proudly represents Kumaraguru and India, demonstrating cutting-edge renewable energy technologies on the international stage.

Team INCRAFT – Human-Powered Submarine team – a multidisciplinary student-led engineering team from Kumaraguru College of Technology (KCT) that brings together students from diverse engineering disciplines to design, manufacture, test, and race a Human-Powered Submarine (HPS). The team works across hydrodynamic design, structural analysis, propulsion systems, electronics, manufacturing, project management, logistics, and sponsorship, providing students with invaluable hands-on experience in advanced engineering and collaborative problem-solving.

Representing India on the global stage, INCRAFT exemplifies Kumaraguru's commitment to innovation, experiential learning, and engineering excellence. The project empowers students to translate classroom knowledge into real-world applications while strengthening research, teamwork, and international collaboration.



Hemanth M, Praanav Karthik M, Prathish Raj B R, Thinesh Бала N, Sri Layaa B, Chris Edwin George P, Thilak S, Varshith D, Nissanth S V, Thanya V, Bala Hassmitha, Deepshikha



— • COVER STORY • —

Representing India at the **European International Submarine Races (eISR) 2026**, **INCRAFT** is pushing engineering beyond conventional boundaries. By designing and building a **Human-Powered Submarine**, students are applying advanced concepts in hydrodynamics, structural engineering, propulsion systems, and manufacturing while competing alongside leading universities from across the world.

Their work reflects the spirit of innovation that lies beneath every great engineering breakthrough.

— EXPLORE. INNOVATE. INSPIRE. —



Competition Spotlight – The European International Submarine Races (eISR) 2026 will be held from 29 June to 10 July 2026 at the **QinetiQ Ocean Basin, Haslar, Gosport, United Kingdom**. The biennial competition brings together university teams from around the world to design, build, and race human-powered submarines through rigorous technical inspections, safety evaluations, and underwater speed and manoeuvrability challenges. As one of only 12 qualified teams for eISR 2026, INCRAFT proudly represents Kumaraguru College of Technology (KCT) and India, showcasing indigenous engineering innovation and multidisciplinary collaboration on one of the world's most prestigious underwater engineering platforms.

Partner Spotlight

HUTECH Vietnam – Connecting Innovation, Global Learning, and Student Success

Ho Chi Minh City University of Technology (HUTECH), formerly known as Ho Chi Minh City University of Engineering and Technology, was established on April 26, 1995. Over more than 30 years of development, HUTECH has continuously expanded its scale while enhancing the quality of education and research, gradually affirming its position as a multidisciplinary application-oriented university with a focus on international integration within Vietnam's higher education system.



Currently, HUTECH offers education across multiple levels, including undergraduate, master's and doctoral level, with more than 60 highly application-oriented academic programs grouped into six main academic fields:

- **Engineering and Technology**
- **Information Technology and Artificial Intelligence**
- **Communication, Design, and Arts**
- **Law, Languages, and Social Sciences**
- **Business and Management**
- **Medicine and Health Sciences**



HUTECH has established a strong reputation for academic excellence and quality assurance. It debuted in the QS Asia University Rankings 2026, ranking 287th in Asia, 67th in South-East Asia, and 6th in Vietnam. The University also earned a QS 4-Star Rating under the QS Stars Version 6.0 framework, with 5-Star ratings in Teaching, Employability, Facilities, Good Governance, and Diversity, Equity & Inclusion. In the QS World University Rankings by Subject 2026, HUTECH was ranked in Hospitality & Leisure Management (151–175), Engineering: Mechanical, Aeronautical & Manufacturing (501–575), and Computer Science & Information Systems (651–700). HUTECH also made its first appearance in the QS World University Rankings 2027, placed in the 1401+ band, reflecting its growing global standing. Additionally, several academic programs are accredited by AUN-QA, FIBAA (Germany), and the Ministry of Education and Training of Vietnam, reaffirming the University's commitment to international quality standards.

HUTECH's strong commitment to internationalization is reflected through its Global Immersion Program and Semester Exchange Program, which provide students with valuable opportunities to gain international academic exposure, experience diverse cultures, and develop global competencies. As part of this vision, HUTECH and Kumaraguru have established a partnership to promote student mobility, academic collaboration, and cross-cultural learning.



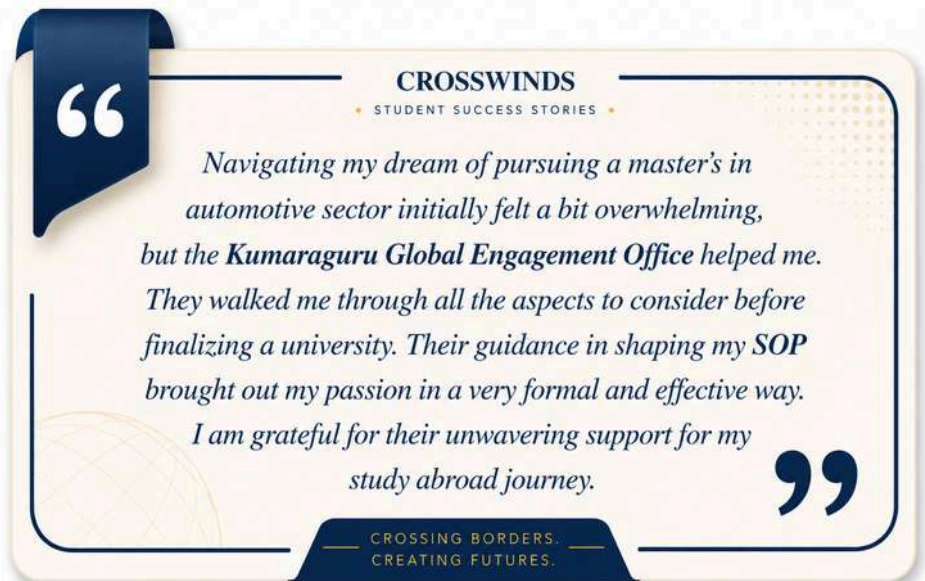
Beginning Fall 2026, Kumaraguru students will have the opportunity to participate in a tuition-free semester exchange at HUTECH, enabling them to study in a vibrant international environment while earning academic credits. This partnership marks an important milestone in Kumaraguru's global engagement efforts, opening new pathways for students to broaden their perspectives, strengthen their professional and intercultural skills, and prepare for successful careers in an increasingly interconnected world.

For more information on semester exchanges, connect with K-GEO on geo@kumaraguru.edu.in. Visit HUTECH @ <https://hutech.edu.vn>

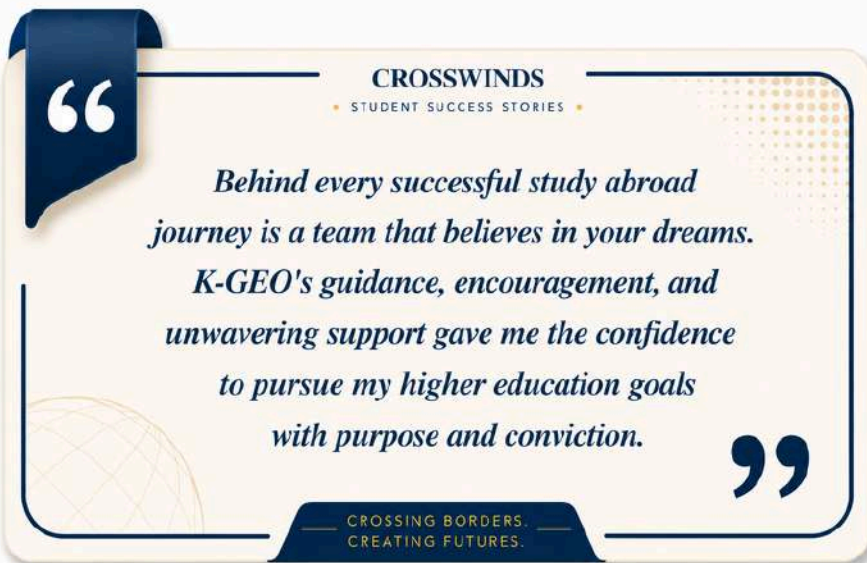




Aruthra S
Mechanics Engineering
Class of 2026



Aruthra S will be joining in fall 2026 in **MSc. Automobile Engineering** program at **University of Leeds, UK** with a scholarship worth **£ Nine Thousand (9000)**



Darshan G
Electronics And Instrumentation
Class of 2026

Darshan G joining in fall 2026 in **MSc. Electrical Engineering** program at **University of Stuttgart, Germany**

K-GEO congratulates Darshan G. and Aruthra on embarking on their global academic journey this Fall 2026. They are among many Kumaraguru students whose commitment, resilience, and strong academic profiles have opened doors to leading universities worldwide. We are immensely proud of every student taking this leap—because the world is watching Kumaraguru, and our students are ready to make their mark.

Global Engagements

From Kumaraguru to the World:
A journey of learning, competing, collaborating and creating impact

01	02	03	04	05	06	07	08	09	10
France	Denmark	Thailand	UK	Monaco	Netherlands	USA	Singapore	Australia	New Zealand
Jun 05 – 14	Jun 05 – 15	Jun 27 – Jul 13	Jun 29 – Jul 10	Jul 03 – 12	Jul 05 – 11	Jul 05 – 10	Jul 05 – 14	Aug 10 – 14	Aug 10 – 14
Course - Communication Design	Discover Denmark	Immersion - Sustainable Agriculture	European Intl Submarine Races	Monaco Energy Boat Challenge	Intl Small Wind Turbine Contest	Babson Build	Immersion - Singapore Experience	Learning Mission	Learning Mission
HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY	HOST UNIVERSITY
Ecole Intuit Lab	Univ. of Southern Denmark & Aarhus University	Asian Institute of Technology	Institute of Marine Engineering & Technology	Monaco Yacht Club	Herze University of Applied Sciences	Babson College	Singapore Universities	Australian Universities	New Zealand Universities
FRANCE	DENMARK	THAILAND	UK	MONACO	NETHERLANDS	USA	SINGAPORE	AUSTRALIA	NEW ZEALAND
									

FROM KUMARAGURU TO THE WORLD

A global journey of learning, competing, collaborating, and creating impact.

 **10 COUNTRIES**
Worldwide Exposure

 **10 PROGRAMS**
Diverse & Impactful

 **142+ STUDENTS**
Future Leaders

 **June – August 2026**

Learning. Competing. Collaborating. Creating.

From Paris to Possibility: How a Week in France Redefined Learning

"For sixteen Kumaraguru students and two faculty members, Paris became exactly a living classroom where design, culture, business, and innovation converged".

Through the École Intuit Lab Global Immersion Program, participants experienced education that extended far beyond lectures, transforming observation into insight and ideas into impact.

From navigating international airports to decoding the visual language of Parisian cafés, every moment encouraged students to look beyond the obvious. The city's architecture, branding, public transport systems, retail experiences, and cultural heritage became case studies in design thinking and human-centred innovation. The experience reinforced that great design is not confined to studios—it is embedded in the way people live, communicate, and connect.

At École Intuit Lab, students immersed themselves in workshops on design thinking, branding, storytelling, user experience, and innovation. Guided by international faculty and industry mentors, they learned to transform observations into meaningful solutions. The highlight was a design challenge inspired by LVMH, where teams drew upon India's rich cultural heritage to create globally relevant concepts. Ideas inspired by Kanchipuram silk, Jaipur craftsmanship, Raja Ravi Varma, the Yali motif, and Indo-French cultural narratives demonstrated how local traditions can inspire international innovation.

The immersion also opened doors to invaluable professional interactions. Students engaged with researchers, architects, entrepreneurs, creative professionals, and distinguished alumni who shared insights into research commercialization, global careers, heritage conservation, and the evolving creative economy. These conversations reinforced the importance of interdisciplinary collaboration and international networking in shaping future-ready professionals. Yet perhaps the greatest transformation was personal.



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CROSSWINDS
GLOBAL ENGAGEMENTS

The best classrooms don't always have four walls. Sometimes they are found in bustling streets, world-class museums, centuries-old cathedrals, and conversations that challenge the way we think.

”

CROSSING BORDERS.

Global Engagements

From Paris to Possibility: How a Week in France Redefined Learning

Many students embarked on their first international academic journey with curiosity and uncertainty. They returned with greater confidence, cultural intelligence, adaptability, and a renewed appreciation for learning without boundaries. They discovered that innovation begins with observation, empathy fuels creativity, and diversity enriches every perspective.

The École Intuit Lab Global Immersion Program reflects Kumaraguru Institutions' commitment to creating globally competent graduates who can think critically, collaborate across cultures, and solve real-world challenges. It is not merely an overseas academic visit—it is an investment in developing leaders who can connect local heritage with global opportunities.

As the students returned home, they carried more than photographs and certificates. They brought back new ways of seeing, questioning, creating, and imagining the future.

Because global immersion isn't about travelling to another country—it's about returning home with a transformed perspective.



Engineering Tomorrow: A Danish Journey Towards a Sustainable Future

When three Computer Science and Engineering students and two Electronics and Communication Engineering students from Kumaraguru College of Technology set foot in Denmark, they expected to learn about green engineering. What they discovered was a new way of thinking, where innovation, sustainability, and collaboration work together to create lasting impact.



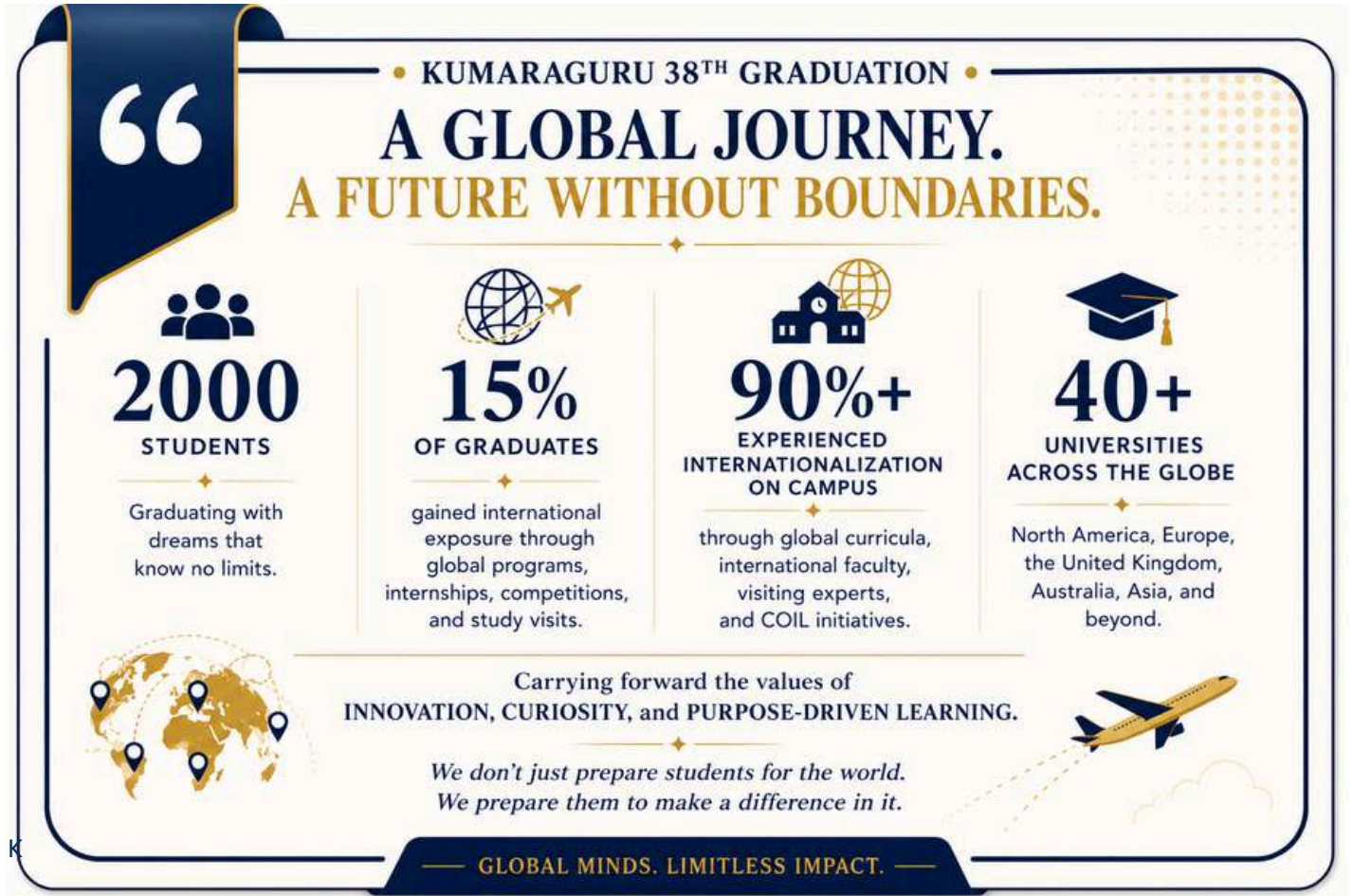
Hosted by the University of Southern Denmark (SDU) and Aarhus University (AU), the program immersed students in one of the world's leading green economies. Through expert lectures, research laboratory visits, campus tours, industry interactions, and project-based learning, they witnessed how Danish universities seamlessly connect academia with industry to solve real-world challenges. Renewable energy, smart technologies, and sustainable engineering were no longer classroom concepts—they became living examples of innovation in action.

Beyond technical knowledge, the experience transformed perspectives. Conversations with international faculty, researchers, and students from diverse backgrounds broadened their understanding of global engineering practices while strengthening intercultural communication and collaboration. Every discussion reinforced an important lesson: the engineers of tomorrow must be as globally aware as they are technically skilled.

The journey concluded with a cultural visit to Paris, where iconic landmarks such as the Eiffel Tower and the Seine River offered a reminder that learning also happens through culture, history, and shared human experiences. Exploring a new country, understanding different ways of life, and appreciating global heritage complemented the academic experience and enriched their worldview. For these five students, Denmark was not simply a destination—it was an inspiration. They returned with enhanced technical expertise, renewed confidence, and a deeper commitment to creating sustainable solutions that can make a global impact.

At Kumaraguru Institutions, international immersion is more than travel. It is about preparing students to think beyond borders, embrace innovation with purpose, and become engineers capable of shaping a greener, more sustainable future.

Building Global Citizens: The World Comes Back to Kumaraguru



Kumaraguru Institutions celebrated the graduation of 2,000+ students, many of whom are already stepping onto the global stage. With 15% gaining international exposure and 90%+ experiencing global learning on campus, internationalization is at the heart of the Kumaraguru experience. Today, our graduates are pursuing higher education at 40+ universities across North America, Europe, the UK, Australia, Asia, and Africa.

Spot KCLAS students at your universities

- University of Greenwich - Nottingham Trent University - University of Hertfordshire - University of Liverpool - Brunel University London - Institute of Personal Care Science (Australia) - Edinburgh Napier University - Leeds Beckett University - Maynooth University	- University of Glasgow - University of Auckland - Deakin University - University of Surrey - University of Queensland - Newcastle University - RMIT University - University of Western Australia - Coventry University	- Dublin City University - University of Strathclyde - Le Cordon Bleu London - EM Normandie Business School - University College London - University of Exeter - Teesside University - James Cook University Singapore
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Spot KCT students at your universities

- Brunel University London - RMIT University - University of Nottingham - Rochester Institute of Technology (RIT Dubai) - Henley Business School - Monash University	- University of Canterbury - TU Dortmund University - CIEFMA–UPC BarcelonaTech - University of Limerick - Coventry University - Queensland University of Technology (QUT)	- University of York - Hochschule Trier - Universität Siegen - University of Warwick - Technical University of Liberec
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Congratulations to the Class of 2025.

We welcome global partners to connect with Kumaraguru for talent, ideas, and collaboration —because the world doesn't just welcome our graduates; the world comes back to Kumaraguru.

Article curated from Social media pages of Kumaraguru

K-GLOBAL TRACK: Building Global Graduates From Day One

In a world where international opportunities increasingly reward preparedness over potential, Kumaraguru Institutions is redefining how students prepare for global success. Through the **K-Global Track**, the **Kumaraguru Global Engagement Office (K-GEO)** has created a structured four-year pathway that runs alongside the undergraduate degree, helping students develop the competencies required for international master's programs and global careers.

Unlike conventional approaches that focus on applications in the final year, K-Global Track begins from the first year itself. The program is designed to systematically build a student's academic profile, global exposure, leadership potential, and career readiness over the course of their undergraduate journey.

The pathway begins with **Foundation**, where students develop a global mindset through personality and strengths profiling, foreign language learning, cross-cultural awareness, and exposure to international education systems. In the **Build** phase, students strengthen their profiles through certifications, research opportunities, leadership experiences, community projects, and international summer schools. During the **Accelerate** stage, students receive expert guidance on university selection, GRE/IELTS preparation, Statement of Purpose development, internships, scholarship planning, and research opportunities. The final **Transition** phase provides personalized support for applications, scholarships, visas, and opportunities for semester-abroad or year-abroad experiences at partner universities.

What makes K-Global Track unique is its focus on creating globally competitive graduates rather than simply facilitating international mobility. Students graduate with a portfolio of experiences that reflects academic excellence, research engagement, leadership, cultural intelligence, and professional readiness—qualities highly valued by leading universities worldwide.

For international university partners, the program offers access to a pipeline of academically strong, globally aware, and future-ready students who have been systematically prepared for success in multicultural learning environments.

K-Global Track reflects Kumaraguru's commitment to transforming global aspirations into achievable outcomes. By integrating international exposure, academic development, and personalized mentoring into a single framework, the program ensures that students do not simply dream of global opportunities—they are prepared to seize them.

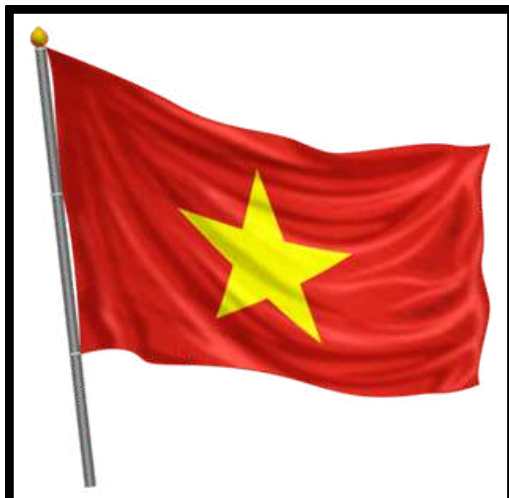
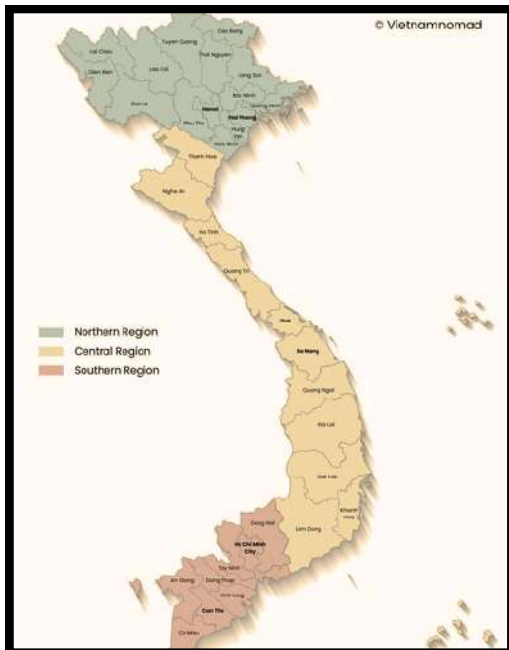
Because global success is not built in the final year. It begins on Day One.

"K-Global Track is not a pathway to study abroad; it is a pathway to becoming globally prepared."



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Vietnam



Capital	Hanoi
Currency	Vietnamese Dong
Population	102,205,698 (Approx as of 2026)
Major cities	Hanoi, Ho Chi Minh, Can Tho, Da Nang, Hai Pong, Long Xuyen
Industry	Electronics & High-Tech Manufacturing, Automotive & Heavy Industry, Textile, Renewable Energy, Tourism and Hospitality
GDP	\$527.27 billion USD (Estimate)
Higher Education Institutions	More than 240 Public and Private universities.
Academic cycles	Two primary intakes Fall (Mid September) and Spring (Mid January)
Popular Programs	International Business Management, International Finance, Economics, Banking, Logistics, Computer Science, Information Technology, Engineering
Post-study options	Shift from a student visa (DH) to a work visa (LD) or temporary residence card (TRC). This requires securing a job offer and having your employer sponsor your work permit.
Visa policies	Student Visa Type-DH for programs that run for a year or beyond with single or multiple entry permit. Students are not permitted to work part time, during their study. Post study students can apply for jobs.

CROSSWINDS

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