TABLE OF CONTENT

Foreword by CEO
  Foreword by Vice-Chancellor
  Introduction

GOAL 1 No Poverty
GOAL 2 Zero Hunger
GOAL 3 Good Health And Well-Being
GOAL 4 Quality Education
GOAL 5 Gender Equality
GOAL 6 Clean Water And Sanitation
GOAL 7 Affordable And Clean Energy
GOAL 8 Decent Work And Economic Growth
GOAL 9 Industry, Innovation And Infrastructure
GOAL 10 Reduced Inequalities
GOAL 11 Sustainable Cities And Communities
GOAL 12 Responsible Consumption And Production
GOAL 13 Climate Action
GOAL 14 Life Below Water
GOAL 15 Life On Land
GOAL 16 Peace And Justice Strong Institutions
GOAL 17 Partnership For Goal
I am delighted to introduce the Sustainable Development Goals (SDG) Report for the year 2022 by Asia Pacific University of Technology and Innovation (APU). As the CEO of APU, I am immensely proud of the strides we have made in integrating sustainability into our practices, aligning with global aspirations while navigating the dynamic business landscape in Malaysia and beyond.

In recent years, the business landscape in Malaysia has seen remarkable transformations, marked by technological advancements, evolving consumer preferences, and an increasing emphasis on sustainability. As the world moves towards a more interconnected global economy, businesses face new challenges and opportunities that demand innovative and sustainable approaches.

Amidst this changing landscape, the importance of the Sustainable Development Goals cannot be overstated. The SDGs provide a universal framework that guides businesses to operate responsibly, address societal needs, and create value not only for shareholders but for all stakeholders, including communities and the environment.

At APU, we recognize that businesses play a pivotal role in driving sustainable development. Our commitment to the SDGs is deeply ingrained in our business strategies, operations, and corporate culture. We believe that integrating sustainable practices not only enhances business resilience but also contributes positively to society and the planet.

The SDG Report 2022 reflects our concerted efforts in embedding sustainability across our operations, academic endeavors, and community engagements. It showcases our dedication to fostering innovation, responsible business practices, and impactful collaborations that advance the SDGs.

As a university deeply entrenched in preparing future leaders and professionals, we understand the significance of instilling the principles of sustainability in our students. Our goal is to nurture graduates who are not only academically proficient but also socially responsible and equipped to address the challenges of the evolving business landscape.

In this rapidly changing world, our commitment to sustainable development serves as the guiding principle that steers our decisions and actions. We recognize the interconnectedness of global challenges and believe that collective efforts are essential to achieving the SDGs.

I extend my gratitude to everyone who has contributed to our SDG initiatives and invite all stakeholders to explore this report. Let us together reaffirm our commitment to sustainability, leveraging our collective strengths to create a more prosperous, equitable, and sustainable future for generations to come.
ENVIRONMENT & CLIMATE ACTION POLICY

Sustainable Development - “development that meets the needs of the present without compromising the ability of future generations to meet their own needs” (Brundtland Report, 1987). We at APU are committed to sustainable development and operating practices through the responsible management of building design, construction, and renovation, landscape practices, energy use, water and waste management, emissions, transportation, and procurement, within a framework of regulatory compliance and fiscal prudence. Through bold leadership and, in alignment with Government and industry, we will put environmental issues at the forefront of our operations. We recognize the role we can play in driving policy, changing behaviors and providing new ideas and solutions to difficult global problems.

CLIMATE ACTION GOALS

To integrate environmental and carbon action into all University processes and to maximize the influence of the University in reducing its footprint through education research and its operations.

APU has committed to achieving net zero greenhouse gas emissions by 2050. This is not a simple journey but it is necessary and important. Reaching net zero emissions will require collective effort and support from all our staff, students, and external stakeholders. To achieve this, we must ensure that we integrate climate action into all that we do.

RESPONSIBILITY

The Environment and Climate Action Board (attendees from Research, University, Professional Services and Students) is accountable for ensuring the Policy is implemented. Implementation will be embedded in all new decisions/operations and activities. All employees have a responsibility to ensure that the aims and objectives of the policy are met.

APU APPROACH:

1. We will seek to create a culture on campus that supports and encourages staff and students to recognize that we all have an element of personal responsibility for the environment and to act on that.
2. We will strive to integrate and balance economic, social, and environmental responsibilities within all its activities. We are committed to operate as a responsible University, addressing the challenges of sustainable development.
3. We will continually improve, and to meet environmental legislative and regulatory requirements as they relate to all our activities.
4. We will continuously review our performance against the sustainability strategy using a quantitative and qualitative performance measurement approach. A report will be circulated to all APU Board members for review.

APU will embrace the Environment and Climate Action Agenda both strategically and globally through its development of footprint reduction initiatives. Climate Action plans and staff and student, and community engagement. We will strive to minimize negative impacts and optimize positive opportunities by delivering our Climate action targets and goals through our strategies, recognizing our global and local reach, through the diverse operations, partnership and programs. Asia Pacific University (APU) is a member of various networks, organisations and have commitment and pledges to bring positive actions for the future of our environment, through education and research, as well as facility and resource management in line with sustainability goals.

APU-wide Implementation:

Implementation will be embedded in all new decisions/operations and activities. All employees have a responsibility to ensure that the aims and objectives of the policy are met.

ENVIRONMENT & CLIMATE ACTION POLICY

The Environment and Climate Action Board (attendees from Technology Park Malaysia (TPM), Kuala Lumpur. APU’s Campus blends technology, integration, and creativity under one roof. University wishes to play a central role in protecting and enhancing sustainability locally, nationally and internationally, by ensuring that this principle underpins all its operations and activities.

INTRODUCTION

The Asia Pacific University of Technology & Innovation (APU) recognises that its economic, social and civic responsibilities are central to its activities and that the University’s core business and teaching operations have the potential to affect the environment, health and prosperity of its employees, its students and the communities in which it operates. APU Ultra-Moder University Campus is strategically located in Technology Park Malaysia (TPM), Kuala Lumpur. APU’s Campus blends technology, integration, and creativity under one roof. University wishes to play a central role in protecting and enhancing sustainability locally, nationally and internationally, by ensuring that this principle underpins all its operations and activities.
Humble and caring Wei Siang receives award from Penang Chief Minister Chow Kon Yeow for his efforts and contributions to youth work, society, and humanity on Penang Island.

Tan Wei Siang, a Software Engineering student at Asia Pacific University of Technology and Innovation (APU) was awarded the Pandemic Leadership Award for his efforts and contributions to youth work, society, and humanity on Penang Island during the 2020-2021 Movement Control Order (MCO).

The prestigious award was presented early this year by Penang Chief Minister Chow Kon Yeow in conjunction with the Young Excellence Award (YEA) 2021, jointly organized by the Penang State EXCO for Youth and Sports, Penang Youth Development Corporation (PYDC) and the Penang Chinese Chamber of Commerce Young Entrepreneur Section (PCCCES).

“Entrepreneurs who think outside the box can also significantly contribute to the country’s development of technology and solutions with a positive and long-term impact, particularly in the post-pandemic world. “Through this event, we can see that Penang is endowed with talented young entrepreneurs who play critical roles in economic productivity during this pandemic period,” Chow Kon Yeow explained.

This year’s YEA 2021 received nearly 300 submissions, with 68 of them emerging as winners across 15 award categories, including the Business Performance Award, Pandemic Business Growth Award, Technology Entrepreneur Award, Green Initiative Award, Brand Award, Social Media Influencer Award, Woman Entrepreneur Award, Rookie Million Achievement Award, E-commerce Award, E-sports Award, Pandemic Volunteer Award, Pandemic Leadership Award, Pandemic Professional Award, University Leadership Award, and University Athlete Award.

Pandemic Leadership Award honours volunteer leaders who demonstrated exceptional leadership commitment and contribution for the good of Penang people during the Covid-19 pandemic. The award recognizes the spirit of compassion, understanding, generosity, and contribution in safeguarding the community in times of crisis.

Wei Siang exemplifies an awakened and empowered youth. The 20-year-old Penangite witnessed the plight of families living in the low-cost flats at Taman Free School — Penang’s third poorest area, built by the city council in the 1970s. He is no stranger to the simple life, having witnessed what the less fortunate have to endure.

He, too, lived a life of modest means. His father works at Lorong Kulit Flea Market as a food stall worker, and his mother is a housewife. They live in Penang’s heritage district with their aunts and uncles. Moved by the area’s impoverished state, Wei Siang took matters into his own hands and launched a youth-led initiative called ‘Care For All’, which provided food baskets to Taman Free School residents.

Creative Ways To Raise Money In A Pandemic

When the lockdown was imposed in March 2020, Wei Siang and his team were able to raise more than RM70,000 through a series of crowdfunding and eSports tournaments allowing them to purchase 800 food baskets, which were distributed to old folks’ homes and B40 families at Taman Free School, Penang.

Each food basket contained 5kg of rice, cooking oil, sugar, flour, salt, rice noodles, sardines, baked beans, coffee, and crackers – the bare necessities for families to survive.

When MCO was reinstated in January 2021, Wei Siang and his volunteer team decided to focus on Taman Free School residents for food basket donations. A 65-year-old aunty who couldn’t help but be saddened by their living conditions. A 65-year-old aunty who lived alone had to sell all of her jewellery to pay her electricity bills. Nonetheless, it was insufficient,” said Wei Siang.

He added that many residents in the Taman Free School area are single mothers, the elderly, and the disabled who have lost their source of income as a result of the pandemic.

“It’s no surprise that those with low incomes have been hit the hardest by lockdowns, unemployment, job loss, pay cuts, and movement restrictions that make it difficult for them to find work. Furthermore, having little to begin with low-income groups have few or no assets or savings, and those working in informal jobs (e.g., cleaners, odd jobs) do not have social security nets to fall back on,” he said.

He admits that food basket donations are only a temporary measure to assist the needy. In the future, he hopes to empower Taman Free School hawkers to earn a sustainable living and support their families. Care For All also has plans to organise more eSports tournaments in the future to raise funds for B40 families throughout Penang.

We went to their homes before donating the food baskets to inquire about their conditions and what they required. I couldn’t help but be saddened by their living conditions. A 65-year-old aunty who lived alone had to sell all of her jewellery to pay her electricity bills. Nonetheless, it was insufficient,” said Wei Siang.

Wei Siang exemplifies an awakened and empowered youth. The 20-year-old Penangite witnessed the plight of families living in the low-cost flats at Taman Free School — Penang’s third poorest area, built by the city council in the 1970s. He is no stranger to the simple life, having witnessed what the less fortunate have to endure.

He, too, lived a life of modest means. His father works at Lorong Kulit Flea Market as a food stall worker, and his mother is a housewife. They live in Penang’s heritage district with their aunts and uncles.

Moved by the area’s impoverished state, Wei Siang took matters into his own hands and launched a youth-led initiative called ‘Care For All’, which provided food baskets to Taman Free School residents.

When the lockdown was imposed in March 2020, Wei Siang and his team were able to raise more than RM70,000 through a series of crowdfunding and eSports tournaments allowing them to purchase 800 food baskets, which were distributed to old folks’ homes and B40 families at Taman Free School, Penang.

Each food basket contained 5kg of rice, cooking oil, sugar, flour, salt, rice noodles, sardines, baked beans, coffee, and crackers – the bare necessities for families to survive.

When MCO was reinstated in January 2021, Wei Siang and his volunteer team decided to focus on Taman Free School residents for food basket donations. A 65-year-old aunty who couldn’t help but be saddened by their living conditions. A 65-year-old aunty who lived alone had to sell all of her jewellery to pay her electricity bills. Nonetheless, it was insufficient,” said Wei Siang.

He added that many residents in the Taman Free School area are single mothers, the elderly, and the disabled who have lost their source of income as a result of the pandemic.

“It’s no surprise that those with low incomes have been hit the hardest by lockdowns, unemployment, job loss, pay cuts, and movement restrictions that make it difficult for them to find work. Furthermore, having little to begin with low-income groups have few or no assets or savings, and those working in informal jobs (e.g., cleaners, odd jobs) do not have social security nets to fall back on,” he said.

He admits that food basket donations are only a temporary measure to assist the needy. In the future, he hopes to empower Taman Free School hawkers to earn a sustainable living and support their families. Care For All also has plans to organise more eSports tournaments in the future to raise funds for B40 families throughout Penang.

Wei Siang exemplifies an awakened and empowered youth. The 20-year-old Penangite witnessed the plight of families living in the low-cost flats at Taman Free School — Penang’s third poorest area, built by the city council in the 1970s. He is no stranger to the simple life, having witnessed what the less fortunate have to endure. He, too, lived a life of modest means. His father works at Lorong Kulit Flea Market as a food stall worker, and his mother is a housewife. They live in Penang’s heritage district with their aunts and uncles.

Moved by the area’s impoverished state, Wei Siang took matters into his own hands and launched a youth-led initiative called ‘Care For All’, which provided food baskets to Taman Free School residents.

When the lockdown was imposed in March 2020, Wei Siang and his team were able to raise more than RM70,000 through a series of crowdfunding and eSports tournaments allowing them to purchase 800 food baskets, which were distributed to old folks’ homes and B40 families at Taman Free School, Penang.

Each food basket contained 5kg of rice, cooking oil, sugar, flour, salt, rice noodles, sardines, baked beans, coffee, and crackers – the bare necessities for families to survive.

When MCO was reinstated in January 2021, Wei Siang and his volunteer team decided to focus on Taman Free School residents for food basket donations. A 65-year-old aunty who couldn’t help but be saddened by their living conditions. A 65-year-old aunty who lived alone had to sell all of her jewellery to pay her electricity bills. Nonetheless, it was insufficient,” said Wei Siang.

He added that many residents in the Taman Free School area are single mothers, the elderly, and the disabled who have lost their source of income as a result of the pandemic.

“It’s no surprise that those with low incomes have been hit the hardest by
LAMBUK’ PREPARATION FOR THE UNDERPRIVILEGED

APU STUDENT COMMUNITY HUMBLED BY ‘BUBUR LAMBUK’ PREPARATION FOR UNDERPRIVILEGED COMMUNITY

International and local students prepare the aromatic ‘bubur lambuk’ during Ramadan for orphans and the underprivileged.

Last weekend, more than 100 students at Asia Pacific University of Technology and Innovation (APU) were ecstatic to be given the opportunity to prepare ‘bubur lambuk’, (porridge) to be distributed and served to the Muslim community during breaking fast. Students from Bangladesh, Indonesia, India, Kuwait, Maldives, Mauritania, Pakistan, Saudi Arabia, Sri Lanka, Thailand, the United Arab Emirates (UAE), Yemen, and other countries collaborated for the first time in the preparation of the aromatic meal which included rice, coconut milk, beef, vegetables, and various spices such as garlic, Bombay onions, cinnamon, star anise, clove, cardamom, fenugreek seed, candlenuts, fennel, black and white pepper, and others.

Through the Ihya’ Ramadan 2022 event hosted by the APU Malay Cultural Society (AMCS) in partnership with the Federation of Peninsular Malay Students (GPMS), some international students took part for the first time and gained experience in preparing the ‘bubur lambuk’ which usually takes time and requires many participants to cook it in the spirit of working together (gotong-royong).

“Apart from having the experience of cutting onions and ginger with friends, I can now cook ‘bubur lambuk’ this Ramadan,” said Ihya’ Ramadan Project Manager Mohd Zawawi Abdulmuroad while thanking all committee members, lecturers, GPMS, Dar Asnaf Alfaatih, and the Saad Abi Waqas Mosque for giving them such a meaningful opportunity.

Meanwhile, Ros Amiya Fatiha stated that Ihya’ Ramadan was memorable and that the event spread positive messages, particularly by cooperating in the distribution of charity.

‘bubur lambuk’ which usually takes time and requires many participants to cook it in the spirit of working together (gotong-royong).

“Whatever students wish to be known as Hussein said, “While I don’t understand what they’re saying, I understand various aspects of their culture, and this is a great way to approach each other,”

The main goal of the AMCS is to convey Malay culture and traditions to all APU students, regardless of race, to show the Malay culture and traditions to all APU students, regardless of race, the ‘bubur lambuk’ programme successfully met a great need of the community with a series of CSR activities,” he concluded.

The academic team comprising Ms Nik Nurlin Arifin Us Suji, Ms Zety Marlia Zainal Abidin, Dr Kamalanathan Shanmugan, Ms Zaireeda Mohd Fauzie, Ms Hemalata Vasudavan, Dr Kohila Malar Kalesamy, Ms Khurshid, Mr Muhamad Wahid (tutorial) and 21 students from School of Technology (SoT) also participated in this project.

CSR PROGRAMME TO HELP UNDERPRIVILEGED CHILDREN ACQUIRE DIGITAL SKILLS

Laptop gifts and technology sharing sessions bring cheer to 140 students from Lighthouse Children Welfare Home

Over the next three months (October, November & December 2022), 16 students from Lighthouse Children Welfare Home will benefit from the ‘Upskill The Next Gen Project: thanks to a joint corporate social responsibility (CSR) programme to drive digital technology.

The initiative led by Asia Pacific University of Technology & Innovation (APU) and industry partners will provide 140 students with an end-to-end digital technology experience.

This includes providing each of them with a laptop, future-proofing skills, empathy and social development programme, and 1.5 hours of class every two weeks covering tech & computer skill sharing sessions, general IT introduction, cybersecurity awareness, IoT introduction, and IT and coding activities.

According to Project Spearhead’s Ts. Dr. Vinesha Selvarajah, the current situation has served as a wake-up call for Welfare Homes to seriously consider putting in place digital technology knowledge that can continue to upskill schoolchildren even after the Covid-19 pandemic.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.

Due to their limited access to technologies, Lighthouse’s students are excited to receive their first laptops.

Head School of Technology Assoc. Prof. Dr. Thang Ka Fei explained, “We are fully supportive of the CSR programme because we believe in making digital technology accessible to all Malaysian children. To quote, ‘Upskill The Next Gen Project could assist and entice the B40 group to participate in becoming proficient in the use of digital technology.

“In addition to fun learning activities, icebreaker activities will help to identify each and individual’s progress. We look forward to serving the marginalised community with a series of CSR activities,” he concluded.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.

Ms Zety Marlia Zainal Abidin, Project Lead, stated that among the fundamental technological improvements that every child should adopt are IT, cybersecurity, IoT and coding.

Beyond that, this project enables students of all ages to gain the most up-to-date knowledge, allowing students to enjoy and explore new subjects and deepen their understanding of digital technology concepts, particularly through the use of technology inside and outside the classroom, and students can gain 21st century technical and computing skills required for future occupations.
GOAL 3: GOOD HEALTH AND WELL BEING  
Ensure Healthy Lives and Promote Well-Being for All at All Ages  

Research Publication 40  
SDG 3 Related Activities 22

CELEBRATING OUR WINS FOR OUR STUDENT-ATHLETES

More medals from our students-athletes in the Dance and Taekwondo Competition!

Roses are red, violets are blue; our student-athletes have been doing great, as they continue to break through!

Let’s go over some of the most recent successes of our students.

Story as a Dancer - Carmen Sham Jia Yi

Recently Carmen made her way to Singapore to make her first appearance at the Singapore Open Dance Championships. There was definitely pressure as 16 other couples also made their way through Amateur Closed divisions. After their performance, Carmen and her partner were ranked Top 6 among the 16 couples.

While Carmen’s proud of her achievements over the year, the one competition she will never forget is when she represented Malaysia at the Southeast Asia Games (SEA 2019).

“It was such an amazing experience and great exposure for me, witnessing all these great dancers from other countries. It was definitely an unforgettable moment for me.”

Carmen goes on to say that she will continue to train herself and also expanding into other dances in near future.

Currently undergoing the Diploma in Business with Information Technology while actively competing in competitions, Carmen truly has a full plate. When asked how she juggles her studies while maintaining her passion for dancing, the answer is simple - Time Management.

“I make a conscious effort to plan my time wisely to manage both my studies and my love for dancing. I often need to go to my dance classes right after I finish my classes at Uni, and it does get quite tiring and stressful because I don’t have the time to take a break. But I enjoy every moment of it.”

Navigating through university life is tough even as it is. Now, add in Taekwondo practice, personal training, juggling studies, clubs and societies, and making room for personal life - seems like a lot.

Despite being on a full schedule, our Taekwondo heroes – Darrshan A/L Vallimanalan, Crystal Lee Wan Ning, Eyu Ji Yuen, Andrew Denilson, and Liew Zhee Kit Jay pushed themselves to be resilient in spite of these obstacles, they worked together to make the most out of their efforts.

Competing against 400 contestants, they collectively gain 5 Medals in the 12th Milo-Putrajaya Taekwondo Championship 2022 which was held recently in Putrajaya.

It was a tough game with many close calls; however, our APU team took us by surprise and attain flying colours with the games they set out to conquer.

We’ve always been confident of our Taekwondo team. APU’s Senior Sport Executive Mr. Illangovan believes that our Taekwondo team holds the edge in these athletics competitions and APU has always been the powerhouse in this area.

The results of our athletes at the competition are as follows:

<table>
<thead>
<tr>
<th>MEDAL/RANKING</th>
<th>EVENT/SPORTS</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Medal</td>
<td>Taekwondo - Male (Light Middle)</td>
<td>Darrshan Vallimanalan</td>
</tr>
<tr>
<td></td>
<td>Taekwondo - Female (Fin)</td>
<td>Crystal Lee Wan Ning</td>
</tr>
<tr>
<td>Bronze Medal</td>
<td>Taekwondo - Male (Welter)</td>
<td>Eyu Ji Yuen</td>
</tr>
<tr>
<td></td>
<td>Taekwondo - Male (Light Middle)</td>
<td>Andrew Denilson</td>
</tr>
<tr>
<td></td>
<td>Taekwondo - Male (Heavy)</td>
<td>Liew Zhee Kit Jay</td>
</tr>
</tbody>
</table>

Let us all congratulate our student-athletes for their fabulous victories and wishing all the best in their future endeavours!
Wrisie Chatbot Wins Silver Awards at I-RIA 2022

The educational system on Carpal Tunnel Syndrome (CTS) developed for the introduction to AI module assignment was chosen as a Top 3 winner because it benefits society, especially junior doctors and hospital assistants.

Carpal Tunnel Syndrome (CTS) can make it difficult for a person to move their hands and wrists, especially if they are elderly, while young adults think they will never have it.

But exactly what is CTS? The median nerve, which is responsible for sensation in the thumb and first three fingers, travels through a natural passageway in the wrist. The carpal tunnel is formed by the arch-shaped wrist bones and a connecting ligament.

Pregnancy, injury, arthritis, and changes in the tendons caused by repetitive motion can all crowd the already narrow tunnel and put pressure on the nerve. This increased pressure can cause tingling in the fingers and thumb, as well as numbness, pain, and restricted movement.

This set of symptoms is known as the CTS. When the operative field is completely numb, the surgeon will make an incision. Skin and other tissue will be carefully removed to expose the carpal ligament, after which the surgeon will cut the ligament, relieving pressure on the nerve that runs beneath it, and finally close the incision with fine sutures, a sterile bandage that runs beneath it, and finally close the ligament, relieving pressure on the nerve which is responsible for sensation in the palm, wrist, and bottom of your hand.

Our Computer Science with a specialism in Data Analytics students Lai Hui Chee and Wong Kit Yee created a Wrisie Chatbot that provides CTS education as a preventive measure.

The educational system was created for the introduction to AI module assignment and was selected as one of the top three winners in the Innovative Research, Invention and Application Exhibition (I-RIA) 2022 because it benefits society, especially junior doctors, and hospital assistants.

But CTS can all crowd the already narrow tunnel and put pressure on the nerve. This increased pressure can cause tingling in the fingers and thumb, as well as numbness, pain, and restricted movement.

Skin and other tissue will be carefully removed to expose the carpal ligament, after which the surgeon will cut the ligament, relieving pressure on the nerve that runs beneath it, and finally close the incision with fine sutures, a sterile bandage that runs beneath it, and finally close the ligament, relieving pressure on the nerve which is responsible for sensation in the palm, wrist, and bottom of your hand.

The I-RIA 2022 is a platform for young inventors from primary school to university students to showcase their innovations organised by the School of Computing, Universiti Utara Malaysia (UUM) College of Arts and Sciences.

I-RIA themed “Humanizing Today’s Technology for Resilient Future” brings together ideas, inspiration, and a platform for students to build networking partnerships, and opportunities to collaborate with the industry.

This is APU’s first time competing in this competition, and Ti Dr Vinothini Kasinathan and Ms Nur Amira Abdul Majid sent only one ‘girl power’ team equipped with their AI module assignment.

“We named our chatbot Wrisie because CTS is a wrist syndrome. We began working on the chatbot in December 2021. Following assignment submission, we enhanced our chatbot once more and finally brought it to I-RIA 2022. We are overjoyed to have received a Silver award in the first trial. We totally did not expect that, but we put our best effort into building this system,” said Lai Hui Chee and Wong Kit Yee.

Wrisie chatbot, according to both of them, is introduced to serve as a medical consultant on CTS knowledge for the general public, particularly CTS sufferers. Wrisie includes numerous valuable materials for users to gain a thorough understanding of CTS, as well as various solutions, suggestions, and routines that CTS sufferers may follow when their CTS symptoms become severe.

Topic paths that provide various CTS information, such as the Introduction path, Symptoms path, and Quiz path, as well as paths that smoothen the conversation, such as the Welcome new user path, Default Message path, and Topic Selection path, are created.

Each path connects a variety of nodes in the proper order to send messages with or without options, images, videos, and carousels. When a new user first interacts with the chatbot or an existing user requests a username change, the user requests a username change, the request user data node is used to collect the username and save it in the Name attribute.

As a result, the name can be used in future conversations. Trigger path nodes are used at the end of paths. Most topic paths will be triggered to the Topic selection path, whereas the Topic selection path will be triggered to a topic path based on the user’s choice.

I-RIA 2022 was inaugurated by Dato’ Vita Dr Ku Abdul Rahman Ku Ismail. Chairman of the Kedah State Committee of Science, Technology, and Innovation, as well as Mr. Faznz Izwan Haisan, Enterprise Technology Architect of Maybank Berhad.

Here We ‘Gold’ Again at the 2021 Hanoi SEA Games!

Another day, another slay by our APU Athletes! Go Team Malaysia!

The diving camp continued their gold medal hunt yesterday (9 May 2022), with Ong Ker Ying (APU student) making a grand entry into the SEA Games stage by harvesting another Gold Medal with her partner Wendy Ng Yan Yee with their outstanding performance which dominates the women’s 3m springboard synchronised event at My Dinh Aquatic Centre.

Ker Ying-Yan Yee, who are partnering for the first time on international stages, dived into victory with 276.30 points to land Malaysia its fourth diving gold medal at the Hanoi SEA Games.

The 20-year-old Ker Ying, who is currently our degree level 1 student in Accounting and Finance, was over the moon to make it to the top despite this being only her first competition after three years.

Ker Ying was roped into the national elite squad after attaining gold in the 3m springboard individual at the same championship, however the pandemic put a stop to any chance of more international exposure.

Ker Ying has another chance to claim another gold when she competes in the women’s individual 3m springboard today.

A Huge Congratulations to Ong Ker Ying and Ng Yan Yee and wishing them best of luck for their upcoming game! Go Team Malaysia!

She had also snagged a gold in the 3m springboard individual at the same championship, however the pandemic put a stop to any chance of more international exposure.

Ong Ker Ying (left) and Ng Yan Yee will compete in the 3m springboard final individually today.
GOAL 4: QUALITY EDUCATION
Ensure inclusive and equitable Quality Education and Promote Lifelong Learning Opportunities For All

CREATING AN EXCITING LEARNING ENVIRONMENT FOR FUTURE CYBERSECURITY EXPERTS AT BATTLE OF HACKERS (BOH) 2022

BOH is bringing back the real CTF after two years of virtual competition with a tougher challenge, and two of the top six winners are APU students.

Team Spac3Cat’s Data Analytics and Cyber Security students Nicholas, Ryan Martin, and William Wijaya were named 1st runner up for this year BOH. Although this group won BOH 2021, this year’s competition was very challenging and exciting because of the new Boot2Root challenge, in which all participating users run a virtual machine-based challenge with the goal of obtaining root permission on it in order to receive the flag.

“It is always important to learn new skills. Because there are a billion skills to learn in cybersecurity. It is important to practice learning new things. In this field, it’s not so much how good you are at coding as it is how good you are at learning,” said Nicholas, representing team Spac3Cat.

“The team will continue to improve our solution to live up to our vision as well as winning the BOH 2023 challenges.”

Along with team Spac3Cat, team ConeToChill (Lim Yi Siang, Lok Shang Ru, and Lee Zhen Ting) finished 3rd runner up in this year’s competition.

BOH 2022 was won by team AlphaShiv from Tunku Abdul Rahman University of Management and Technology (TAR UMT) with 1,830 points, followed by team Spac3Cat from APU with 1,810 points, team PengG0dnam from Universiti Kuala Lumpur (UKL) with 1,770 points, team ConeToChill from APU with 1,700 points, and team roBl0x from UNIKL with 1,650 points.

Other universities and polytechnics participating in BOH 2022 include First City University College (FCUC), German-Malaysian Institute (GMI), International Islamic University Malaysia (IIUM), Menara Polytechnic, TATI University College (TATUC), Universiti Teknologi MARA (UiTM), Tenaga National University (UNITEN), Universiti Pertahanan Nasional Malaysia (UPKN), Universiti Sains Islam Malaysia (USIM), and Universiti Tunku Abdul Rahman (UTAR).
EDUTAINMENT OUT-OF-CLASSROOM, MAXIMISES DESIRED LEARNING OUTCOMES

APU QR IT SEEK expanded to over 400 students from various countries, with more prizes, and shows promise for a more effective teaching and learning approach for digital natives.

The School of Computing and Technology (SoC & SoT) is back with a bang this year, with over 400 students from 205 teams competing in APU QR IT SEEK – an edutainment and out-of-classroom learning competition concept that uses a variety of mobile devices. Because it is a fun edutainment outside of the classroom, this competition draws the most student/participants from both schools at Asia Pacific University of Technology & Innovation (APU).

Each team of two was required to seek and decode a series of 20 Quick Response (QR) codes hidden in random locations around APU campus using a mobile device such as a phone, iPad, or tablet. When a code is scanned by a mobile device, it generates a quiz question related to a study topic. Some of the questions tested prior knowledge, while others necessitated additional research to obtain an answer. Students/participants in this problem-solving competition must solve a puzzle consisting of 20 clues and 20 questions hidden in the cafeteria, carpark, stairwells, classroom, labs, or library in search of the QR code including fake QR codes placed around with motivational words.

Strategy, luck & good instincts.

After finishing third in the Treasure Hunt Fusion Fest 2022 hosted by the School of Marketing & Management (SoMM), Computer Science and Data Analytics students from team J & K: Kerk Joo Yee and Soo Kar Yeng won first place in this year’s APU QR IT SEEK. To win this competition, Soo Kar Yeng was in charge of solving the clues of the location and answer the questions. Around 5 to 10 minutes before the game ended, they decided to guess the answers to some of the questions and submit them as soon as possible because submission time is also a factor in winning the contest.

“It could be considered luck, and we enjoyed it because it was our first time competing at APU, and we were only there to have fun,” said Steven, speaking on behalf of his team, Team Steven Lee: Steven Yenardi and Divaldo Lee, who both studied Data Analytics, said they simply went around campus looking for QR codes and attempting to solve the questions. “Some of the questions we encountered tested prior knowledge, while others necessitated additional research to obtain an answer. Students/participants in this problem-solving competition must solve a puzzle consisting of 20 clues and 20 questions hidden in the cafeteria, carpark, stairwells, classroom, labs or library in search of the QR code including fake QR codes placed around with motivational words.”

DESIRED LEARNING OUTCOMES

For a more effective teaching and learning concept that uses a variety of mobile devices, this competition develops interpersonal skills, which will be very useful in the learning journey. “We feel accomplished and appreciated for taking first place, and we get to learn about teamwork and interpersonal skills, which will be very useful in our learning journey because most of the questions are related to our course of study,” said Steven.

“Along our three-year study journey at APU, we will compete in other competitions to enrich our university life and land our dream job after graduation,” said team J & K.

Meanwhile, Emilio Garvin and Marchanda Marchela Moningkey of Team Shallio stated that they have no strategy for winning the competition and just simply follow their instincts to find the location and answer the questions. “APU QR IT SEEK meets our expectations. This competition may assist us in learning more about some of the topics in the questions that we are unsure of, and we will gladly participate in any future event or competition,” said both of them.

PROMOTES A FUN LEARNING EXPERIENCE FOR EXCHANGE STUDENTS

SoC and SoT use a ‘snake and ladder’ game powered by Computing and Artificial Intelligence (AI) topics and questions to help students boost their knowledge, skills, and confidence.

Computing exercises are key to understanding learning but doing the same programming code every day can be tedious. Recently, APU’s School of Computing & Technology (SoC & SoT) developed an edutainment concept that uses a ‘snake and ladder’ game to challenge students in a fun learning environment. Although this game was popular during childhood, the snakes and ladders game: Let’s Play BAC (Roll, Answer & Climb) is unique because it includes topics and questions related to computing and Artificial Intelligence (AI) as the dice are rolled from start (lower square) to finish (upper square). Students can learn while having fun, as well as develop social skills by interacting with other players of a team. If they correctly answer the questions, they can roll the dice to move up.

French exchange students, Barthelemy Fidelio Pierre Drabczuk and Mikael Ferreira De Almeida won first place and received a wireless keyboard, which they immediately put to use in class. "In many ways, QR IT Seek was the beginning of their journey toward growth. Each student was given a badge, which some of them still wear around campus.

“We believe that learning should be enjoyable. Please study hard and work hard, as the old adage goes. Why can’t we study happily and work happily? There is substantial medical and scientific evidence that shows that your body and brain work best when you are in a pleasant state of mind,” she said.

The organizing team of APU QR IT SEEK 2022 includes Ms Mary Ting, Mr Justin Gilbert Alexius Silvester, Ms Lai Chew Ping, Ms T Tulasi Sathyabaram Appalasyamy, Ms Nur Amira Abdul Majid, Dr Dewi Octaviani, Mr Vireesh Ramamoorthy, Ms Minnu Helen Joseph and Ms Khalida Harun.

Ts. Dr. Vinodhini Kasinathan confirmed that APU QR IT SEEK has become the largest event for the year 2022, with the most students participating.

APU now accepts Master’s Degree exchange students, and they are the first batch to arrive. Rounding up the participating teams were two non-exchange students, Xing Chyi and Thomas Rahmadan Bannatyne Clark (team 4), who are first semester Master’s Degree students.

Each participant received a set of recycled straws with the APU logo printed on the cover as a token of participation.

Instead of just being in the classroom, students got an indirect workshop session at APU Atrium with interactive questions in the ‘snake and ladder’ game.
When asked if APU’s courses and modules met their expectations, he says, “We expected more coding sessions in some modules and are grateful for all the guidance we received from our APU lecturers.”

All exchange students completed one semester of study at APU’s Bukit Jali campus and have now returned to their respective universities to complete their studies.

According to Ts Dr Vinothini Kasinathan, the organising committee’s head, the competition was held to find a more enjoyable learning method by combining educational elements.

“We could do better than this. Imagine if students could answer questions in real exam mode via this game which we got insights into specific areas where students struggle,” she said.

And this year in 2022, the blockchain and crypto-based club in Malaysia began to unfold.

Time flies! In 2021, plans to establish Asia’s first and largest AND CRYPTO ECOSYSTEM MALAYSIA’S BLOCKCHAIN and as a Premier Digital Tech Institute. for its top-notch digital technology courses programme because APU is well known to come to Malaysia for an exchange from their French lecturer and decided increasing our understanding of subject “It is very good for identifying our Computer Science Engineering and AI, which will help them in the future. Students struggle,” she said.

“We could do better than this. Imagine if students could answer questions in real exam mode via this game which we got insights into specific areas where students struggle,” she said.

APUBCC President Lee Shuen Rui stated that the club is always looking for the best and different approaches that will benefit the member’s knowledge pool in blockchain and crypto-related topics because the majority of its members are beginners looking to start a career in Blockchain.

“One of the initiatives our club has been working on to provide information for beginners is the informal discussion that the committee has with club members every Friday, and they are welcome to join and contribute our opinions and thoughts about blockchain and cryptocurrency. “APUBCC also released podcasts in collaboration with APU’s Student Representative Council (SRC) that discuss the technologies in depth, in addition to actively uploading meaningful and insightful postings on APUBCC’s Facebook, YouTube, and Instagram for our followers to learn more about Web3 developments,” he said.

APUBCC Vice President Yudhistira Sugumaran added that the club’s future direction will be extremely exciting, with forward-thinking initiatives aimed at empowering APU students to use their unique skill sets to contribute to the growth of the blockchain ecosystem locally and globally.

“A major drawback to the adoption of blockchain technology is the onboarding component as there is a steep learning curve for developers to build decentralized applications and for the public to use these applications.

“Strategic collaborations with industry partners such as ACCESS Malaysia, KorpDAG, Metapac, and others help in creating a progressive environment where ideas are exchanged, visions are shared, and projects built on the blockchain are supported through various means.

“These initiatives are important alongside educating students about blockchain, there should be ideas on how to create more use cases for blockchain in different industries. APU has never been short on innovative students, so it is only right that efforts are channelled through the right medium to innovate for the blockchain,” he said.

Due to their active collaborations with the industry, APUBCC is frequently invited to various talks given by other communities, such as Web3 Night, 3six9 NFT Marketplace Introduction, and BN8 Chain Conference.

Attending these fun and insightful gatherings enables APUBCC members to converse, exchange ideas, and learn from real-world professionals, allowing them to grow with a better understanding of blockchain technology and crypto.

Some of the members have even taken part in substance developers training and won a mini hackathon jointly organized by APU and Octopus Network, a multichain crypto network created to bootstrap and fun decentralized application chains, aka Appchains.

Shiyu Sarah (red shirt), a renowned NFT artist, has been invited to exhibit her NFT artwork at APU.

Committeees under the APUBCC have been very active in organising various events and activities, including a beginner-level talk session titled NFT Digital World of Wonder by Imperium Universe CEO Mr. Jason Kwek and Access Malaysia Vice President Mr. Jason Chew; a visit to an NFT exhibition as part of a team-building activity.

Shiyu Sarah (red shirt), a renowned NFT artist, has been invited to exhibit her NFT artwork at APU.
IN the face of rapid technological development, where the Malaysian digital economy is expected to contribute more than 25.5% to the nation’s gross domestic product (GDP) by 2025, tech visionaries are already forecasting the next revolution – the Fifth Industrial Revolution (IR 5.0), even though we merely started talking of IR 4.0 a few years ago.

Stepping into the era of IR 5.0, the tech world is embracing collaborative robot systems – Cobots. It is about integrating human efforts with smart technology. Humans will no longer be scared of robots but regard them as working partners. In tandem with the emergence of the most disruptive technologies – 4D printing, quantum Internet, miniature AI, brain-computer interface, smart robots, neuromorphic hardware – there is a growing need to develop talents that can ride along with the wave of digital transformation.

Preparing and nurturing future-proof talents, therefore, requires constant review of the course curriculum as well as teaching and learning strategies.

“Creativity, undeniably, is a key graduate attribute for the 21st century,” stated APU vice-chancellor Prof Dr Ho Chin Kuan.

“Learning takes place everywhere, be it in the classroom, out of the classroom, and in cyberspace.”

“We are no longer compartmentalising learning in specific spaces, rather, we adopt Teaching and Learning (T&L) strategies that encourage creativity.

This explains that while humans and machines are exploring a better way to work together, robots may help us go where we want to be faster, but they can’t be as creative as humans. Therefore, creativity will become one of the top three skills workers will need.

On the concrete ways to nurture creative graduates, Prof Ho opined, “We can bring together students from multiple disciplines to solve a challenge. Creative juices will start flowing when one is motivated by problems facing another discipline.”

“Students should be encouraged to take part in competitions that embody real-world scenarios. Such an approach is called authentic learning – putting students in situations similar to what they will face in the workplace.”

By bringing APU students from multiple disciplines to solve a challenge, creative juices will start flowing when they are motivated by problems facing another discipline.

“Problem-based learning and project-based learning are two such strategies that emphasize knowledge discovery through exploration. This encourages the development of creativity,” Prof Ho elaborated.

According to him, creativity is the ability to produce original ideas and solutions that bring value. On the technology front, though there has been great progress in making computer programmes perform human-like tasks, yet, humans still have a distinctive edge in creativity.

“While algorithms typically learn from existing information, humans have an innate ability to think out of the box. Rather than compete, we expect that technology will augment our creative ability,” added Prof Ho.

Recently, a survey done by the World Economic Forum’s Global Agenda Council on the future of software and society showed that people expect AI machines to be part of a company’s board of directors by 2026.

APU is adopting T&L that blends both guided learning and independent learning approaches to cultivating innovation and creativity in students. Here, students are experiencing mixed reality by putting on smart glasses in the XR Studio.

For this, APU’s T&L blends both guided learning and independent learning approaches, said Prof Ho, because independent learning gives space for students to explore and experiment with ideas, encouraging them to take responsibility for their learning.

Whereas, guided learning will ensure that energy and focus are spent in the right places.

With the above approaches, APU is fostering students who are full of creativity graduates, who can develop innovative solutions in a VUCA (volatile, uncertain, complex and ambiguous) world; and talents, who are creating a new world and new era that is reciprocal of digitality and creativity.

The talent pipeline started at APU has been proven by the latest Annual Graduate Tracer Study by the Higher Education Ministry, which shows that 100% of APU graduates were employed upon graduation.

APU students also have the option to opt-in for the APU-DMU dual degree scheme, where they will receive two sets of degree certificates and transcripts upon graduation: one from APU (Malaysia) and another from the De Montfort University (United Kingdom).

With DMU’s history of over 150 years in providing higher education to students from around the globe, this collaboration provides the students with a global outlook and shapes them into global IR 5.0 citizens.

IN CREATIVITY, EDUCATION AND LEARNING BEYOND IR4.0

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Jan-22</td>
<td>Young Inventor Recognition for Cyberbullying Detection Research</td>
<td><a href="https://www.apu.edu.my/media/news/2489">https://www.apu.edu.my/media/news/2489</a></td>
</tr>
<tr>
<td>4</td>
<td>Feb-22</td>
<td>Memorandum of Understanding (MoU) Signing Between Asia Pacific University of Technology &amp; Innovation (APU) and The Giving Bank Foundation (TCB)</td>
<td><a href="https://www.apu.edu.my/media/news/2497">https://www.apu.edu.my/media/news/2497</a></td>
</tr>
<tr>
<td>5</td>
<td>Feb-22</td>
<td>APU Students Go On A Trip in “Getting To Know You”</td>
<td><a href="https://www.apu.edu.my/media/news/2495">https://www.apu.edu.my/media/news/2495</a></td>
</tr>
<tr>
<td>6</td>
<td>Mar-22</td>
<td>Qi24U@APU - Internal Entertainment Competition</td>
<td><a href="https://www.apu.edu.my/media/news/2508">https://www.apu.edu.my/media/news/2508</a></td>
</tr>
<tr>
<td>7</td>
<td>Mar-22</td>
<td>Collaboration Between APU and CILT Ventures Malaysia for Green Supply Chain and Logistic Excellent Centre (GEC)</td>
<td><a href="https://www.apu.edu.my/media/news/2501">https://www.apu.edu.my/media/news/2501</a></td>
</tr>
<tr>
<td>8</td>
<td>Mar-22</td>
<td>CMT Association Partners With Asia Pacific University Of Technology &amp; Innovation To Advance The Discipline Of Technical Analysis</td>
<td><a href="https://www.apu.edu.my/media/news/2500">https://www.apu.edu.my/media/news/2500</a></td>
</tr>
<tr>
<td>9</td>
<td>Apr-22</td>
<td>APU IUSC Members Soar At TCS SustainaThon Malaysia 2021</td>
<td><a href="https://www.apu.edu.my/media/news/2544">https://www.apu.edu.my/media/news/2544</a></td>
</tr>
<tr>
<td>12</td>
<td>May-22</td>
<td>APU’s Master of Project Management (MPM) Program Receives CAC-PMI Accreditation</td>
<td><a href="https://www.apu.edu.my/media/news/2559">https://www.apu.edu.my/media/news/2559</a></td>
</tr>
<tr>
<td>13</td>
<td>May-22</td>
<td>MAB Academy and APU Collaborate to Enhance Workforce Digital Readiness</td>
<td><a href="https://www.apu.edu.my/media/news/2552">https://www.apu.edu.my/media/news/2552</a></td>
</tr>
<tr>
<td>14</td>
<td>May-22</td>
<td>Malaysia PropTech Association (MPA) and APU Collaborate to Advance Technology Solutions for Property and Construction Start-ups</td>
<td><a href="https://www.apu.edu.my/media/news/2542">https://www.apu.edu.my/media/news/2542</a></td>
</tr>
<tr>
<td>15</td>
<td>Jun-22</td>
<td>IJCEC Awards For 5 APU Teams</td>
<td><a href="https://www.apu.edu.my/media/news/2679">https://www.apu.edu.my/media/news/2679</a></td>
</tr>
<tr>
<td>16</td>
<td>Jun-22</td>
<td>Trip to explore Malaysia’s Cameron Highlands</td>
<td><a href="https://www.apu.edu.my/media/news/2618">https://www.apu.edu.my/media/news/2618</a></td>
</tr>
<tr>
<td>17</td>
<td>Jun-22</td>
<td>Emerged 5th In ACP Championship Malaysia 2022</td>
<td><a href="https://www.apu.edu.my/media/news/2615">https://www.apu.edu.my/media/news/2615</a></td>
</tr>
<tr>
<td>18</td>
<td>Jun-22</td>
<td>Morib Beach Cleaning Initiative</td>
<td><a href="https://www.apu.edu.my/media/news/2608">https://www.apu.edu.my/media/news/2608</a></td>
</tr>
</tbody>
</table>
15 MEDALS AT THE SUKIPT 2022

Celebrating our student athletes as SUKIPT come to an end

Throwing back to August, APU’s contingents had a prosperous sports season celebrating their triumph over the SUKIPT 2022. Here are quick recaps of our teams’ successful seasons.

SUKIPT preparations began at the start of the year, when each APU sports club was informed of the competition to select their best athlete to represent APU.

Since then, our athletes have been hustling throughout the season in the different sports: Taekwondo, Karate, Golf, Chess, and Badminton.

Our contingents together with Mr. Ilangovan Thirumal set off to University Pendidikan Sultan Idris, situated in Tanjung Malim, Perlis as they embark to fulfill their goal. The month-long event was held from 12 August until 21 August 2022.

The team gave it their all at every game and fought through the challenges, leading us to several victories!

As SUKIPT ended with our last victory match, the athletes hugged each other and congratulated one another. As exhausted as it may be, it is definitely heart-warming to see them on cloud nine after attaining their medals.

Let us all congratulate our athletes for their fabulous victories and wishing all the best in their future endeavors.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

**It’s Show Time!**

On 9th August, APU’s senior leadership flagged off 45 student-athletes who are participating in the highly anticipated SUKIPT 2022, wishing them best of luck while hoping for good news to come.

Some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.

For some athletes, this competition was about developing the skills for the sport they already loved. For others, it holds a special meaning behind to discover new possibilities and challenging themselves to strive further than before.

Throughout the preparation, our APU contingents did a fantastic job of coming together to learn their own strengths and weaknesses, to bond and care for fellow teammates, and to show off their sportsmanship and competitive nature all while training together.
INNOVATIVE ECOTOURISM & GREEN OCEAN INVENTION GAINS JAMES DYSON AWARD

The Synergy of APU Industrial Design and Engineering Students to address the global issue won them a ticket to the James Dyson Award International 2022 Competition

A recent study by scientists reveals that micro and nano plastics are in every human tissue they sampled. Aware of the global issue of plastic pollution, especially in the world's oceans, Industrial Design and Engineering students at Asia Pacific University of Technology and Innovation (APU) joined hands and try to solve this problem with design thinking. This initiative won them a runner up at this year's Malaysia James Dyson Award Technology and Innovation (APU) joined hands and try to solve this problem with design thinking. This initiative won them a runner up at this year's Malaysia James Dyson Award

“Mostafa's role as an industrial designer is the cornerstone of our project as he transformed our technical idea into an attractive and visually appealing product without forgoing the ergonomics concept,” said Chan.

'Inspired by the filtered feeding system of the whale shark, we designed a whale-like structure with a filtering system in it that made up of Velcro straps, a commonly used material with a hook-like surface that can efficiently capture micro debris in the ocean,’ explained Chan Jing Hung, the team leader.

Chan and the engineering branch kicked off the project with numerous experiments, concept-proofing and prototyping. To maximise the efficiency of the micro debris capturing mechanism, they tested it with different designs and shapes on one of the beaches along the Straits of Malacca. Upon identifying the best design, the team continued with prototype building, refining and enhancing by using a motor to enable automation.

In the more challenging international arena, Team Techgasus will showcase how Whalecro works - As the vehicle accelerates forward underwater, the water current will flow in the opposite direction of the vehicle. As a result, it pulled in the surrounding micro debris with the aid of current and passes through a series of motor-powered filters.

APU WATER CONSERVATION PROGRAM

APU is dedicated in creating awareness on the understanding the importance of water conservation in daily lives of its communities. This wise management of the water resources act can be vividly translated through its conservation methods such as Rainwater Harvesting & Efficient Water Fittings promoting resource efficiency at all time. Rainwater harvested is used for irrigation system, toilet flushing, combined with efficient water fittings such as dual flush toilets, waterless urinals and water taps equipped with aerators. This reduces potable water usage by more than 35%.

Other Initiatives & Campaigns Undertaken

- Notices in washrooms to remind staff and students to save water and to ensure that taps are not left running
- Review of water harvesting solutions

KEY ENGAGEMENTS UNDER SDG 6 FOR 2022

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 22</td>
<td>Innovative Ecotourism &amp; Green Ocean Invention Gains James Dyson Award</td>
<td><a href="https://www.apu.edu.my/media/news/2691">https://www.apu.edu.my/media/news/2691</a></td>
</tr>
<tr>
<td>2</td>
<td>2022</td>
<td>APU Water Conservation Program</td>
<td><a href="https://www.apu.edu.my/apu-water-conservation-program">https://www.apu.edu.my/apu-water-conservation-program</a></td>
</tr>
</tbody>
</table>
Aspiring O&G and energy professional Abdallah El Badaou from Asia Pacific University of Technology & Innovation (APU), was among the Top 100 worldwide selected to participate in the IPTC Education Week, a sideline of the International Petroleum Technology Conference (IPTC) 2022, which took place in Riyadh, Kingdom of Saudi Arabia, from 21st to 23rd February.

More than 30,000 visitors – including regional energy ministers, industry leaders, and governmental representatives from across the world were in attendance – to exchange views, expertise, and experience on industry trends, stimulating technical research and business activities.

Abdallah was picked among a pool of thousands of applicants worldwide in a year that saw the largest number of applicants since its inception. Following a one-minute video pitch by hopefuls, only 100 were selected and won full sponsorship by Saudi Aramco, the Saudi Arabian public petroleum and natural gas company.

He was thrilled with a geological field trip where he observed an enriching exchange between earth scientists that provided him with a vivid learning experience.

Participants were divided into different groups and took part in educational challenges on the second day. The completely hands-on learning began with a “geosteering” (drill wells) competition using software by Dogi, followed by a field development competition by Schlumberger, a French technology company, through the application of their software, Petrel.

"Participants got a chance to interact with energy leaders through workshops and panel sessions that catered for their professional growth," continued Abdallah, who served as the President of the Society of Petroleum Engineers (SPE) APU Student chapter for the term of 2020/2021, where he led his chapter to win their first SPE Excellence award.

The last two days of the conference were a precious chance for the young students to rub shoulders and network with industry leaders and potential employers, as they were permitted to join in the professional exhibition and technical sessions.

A light-hearted moment when Abdallah El Badaou (left) meets his group mates originally from Saudi Arabia, Egypt, Venezuela, and Pakistan who worked together as a team in the educational challenges.

"We interacted with Dirk Orlovsky, the European Association of Geoscientists and Engineers (EAGE) President; Anna C. Shaughnessy, the Society of Exploration Geophysicists (SEG) President, and Mr Adif Zulkifli, Executive Vice President and CEO, Upstream, PETRONAS. They reassured us about the future of the energy industry shared Abdallah, whose motto is ‘your network is your net worth’.

On the importance of networking before graduating, Abdallah further elaborated, "As global citizens, we don’t know where we will work in or which door we may knock-on. However, building rapport with the industry leaders goes beyond career opportunities, as it will also bring impact to our society, promoting social, cultural, academic and scientific exchange while celebrating our diversity," opined this student leader.

A Comorian by origin, Abdallah, 22, who was named as one of the Energy Leaders for Tomorrow in 2020 by Energy Intelligence, supported by TotalEnergies, Saudi Aramco and Cuvior Group, firmly believes there is an advantage in knowing people of different backgrounds in an ever-connected world.

To transmit this unforgettable and precious experience to his fellow junior in the society, the unstoppable Abdallah swiftly initiated a virtual talk upon returning to the campus, by collaborating with other student chapters’ representatives from Oman, India and Indonesia. “In this joint event, we shared our experience of participating in IPTC 2022.”

"As global citizens, we don’t know where we will work in or which door we may knock-on. However, building rapport with the industry leaders goes beyond career opportunities, as it will also bring impact to our society, promoting social, cultural, academic and scientific exchange while celebrating our diversity," opined this student leader.

He was thrilled with a geological field trip where he observed an enriching exchange between earth scientists that provided him with a vivid learning experience.

"We interacted with Dirk Orlovsky, the European Association of Geoscientists and Engineers (EAGE) President; Anna C. Shaughnessy, the Society of Exploration Geophysicists (SEG) President, and Mr Adif Zulkifli, Executive Vice President and CEO, Upstream, PETRONAS. They reassured us about the future of the energy industry shared Abdallah, whose motto is ‘your network is your net worth’.

On the importance of networking before graduating, Abdallah further elaborated, “As global citizens, we don’t know where we will work in or which door we may knock-on. However, building rapport with the industry leaders goes beyond career opportunities, as it will also bring impact to our society, promoting social, cultural, academic and scientific exchange while celebrating our diversity,” opined this student leader.

A Comorian by origin, Abdallah, 22, who was named as one of the Energy Leaders for Tomorrow in 2020 by Energy Intelligence, supported by TotalEnergies, Saudi Aramco and Cuvior Group, firmly believes there is an advantage in knowing people of different backgrounds in an ever-connected world.

To transmit this unforgettable and precious experience to his fellow junior in the society, the unstoppable Abdallah swiftly initiated a virtual talk upon returning to the campus, by collaborating with other student chapters’ representatives from Oman, India and Indonesia. “In this joint event, we shared our experience of participating in IPTC 2022.”
Here are the other winners from APU in FUSION 2022.

Apartment Island students Theenesh and Gells both had a fantastic experience, and they were able to learn a lot about various topics, primarily pertaining to workplace experiences and situations. “When we first entered this competition, we knew it would be difficult to win because all of the other participants were either final-year students or working adults with far more experience than us. However, this did not dampen our spirits as we continued to work very hard in order to create a system capable of sustaining the future of the world in which we live,” said Theenesh.

Overall, it was a fantastic experience, and we would like to thank our supervisors, Dr Vinothini Kasinathan and Ms Nur Amira Abdul Maud, for guiding us on this incredible journey. We would absolutely like to represent APU in future competitions.”

Asia Pacific University of Technology & Innovation (APU) had a memorable moment at the virtual 4th National Symposium on Human Computer Interaction – FUSION 2022: Student Design Competition, winning Gold award for development category, as well as three Silver awards, five Bronze awards, three special jury awards for best poster and video, and two lucky draws.

FUSION 2022 is organised by the Kuala Lumpur ACM SIGCHI Chapter (myHCI-U) and supported by ACM SIGCHI, with the theme ‘Designing a Sustainable Future’, which looks into ideas and solutions that address the 17 United Nations (UN) Sustainable Design Goals (SDGs).

The organisers call for action, particularly in the areas of Good Health and Well-being (SDG #3), Quality Education (SDG #4), and Decent Work and Economic Growth (SDG #8), which are important to young people in Malaysia and around the world.

The judging panel consisted of local industry leaders who evaluated entries based on merit, integrity performance and raising awareness on human-computer interaction (HCI) and user experience (UX).

The Selangor Tourism Chatbot, Data Analytics students Theenesh and Gells display the prototype design of TRAVO: The Selangor Tourism Chatbot.

Commenting on this accolade, Theenesh stated that it was an honour for him and Gells to be able to represent APU for Fusion 2022 and that throughout the competition, they were able to learn a lot about various topics, primarily pertaining to workplace experiences and situations.

“I love it as an opportunity for me to explore the human-computer interaction aspect of my field of study and I appreciate the support and guidance received from my supervisors,” shared Theenesh.

The Selangor Tourism Chatbot, TRAVO, is an initiative by the Selangor Tourism Department, designed to provide information and assistance to tourists visiting the state of Selangor.

The Bank invests not just in enhancing our technology capabilities but also in building our digital talents. We can’t do this alone but always explore ways to enhance our capabilities through partnerships with the best in the digital space in academia and the industry,” said Mohd Muazzam.

“APU is proud to be chosen by Bank Islam and this is evidence of our steadfast commitment to provide high-quality tertiary education with a unique fusion of technology, innovation and creativity that has been well received by industry players,” said Parmjit Singh.

Under this collaboration, Bank Islam aims to take in highly competent, employable, and future-proof professionals from APU to fulfil critical requirements in digital roles. These include IT Architects, Process Consultant, Business Analysts, Organisational Change & Comms, IT Developer, Cloud or Infra Engineer, Ux/Ux Designer, Data Engineer and many more.

In this first part of the collaboration, APU will support Bank Islam in upskilling and reskilling its employees’ digital capabilities through an internship programme. Further, APU and Bank Islam will work together to research the needs of the industry and design trainings and programmes to meet these needs.
Brands that were seen putting up their recruiting booths for this mega event included AxiAsia, Maybank, Alliance Bank, Astra System, Bank Islam, Bank Negara Malaysia, BDO, CIMB Bank, Coca-Cola, DHL, DKSH, Epson, Fusionex, Great Eastern, Habib Group, Hilti IT Services, Hong Leong Bank, Micron Memory, IOS Malaysia, Public Bank, PwC, Schlumberger, Sun Life Malaysia, Tata Consultancy Services, Maxis, Deloitte, KPMG, Standard Chartered Bank and many more. “I have been informed, that the registered number of vacancies offered includes 5488 full-time positions and about 3000 part-time positions, which added up to more than 8400 job positions,” enthused APU’s CEO Datuk Parmjit Singh, addressing industry players at the talent partners engagement session an opening for the career fair. 50% of the above companies were open to hiring international students, echoing the multicultural demographic at APU with an international student community of more than 13,000 students from more than 150 countries. APU is considered to be a Professional Development Institution in keeping with its vision of ensuring that our students emerge as professionals and not merely graduate with a degree. You can reasonably rect accredit that the graduates of APU would be professionally guided with highly competency based courses,” Parmjit told the brand leaders.

Elaborating on the success factors of such a physical event since the pandemic, Prof. Dr. Ho Chin Kuan, APU’s Vice-Chancellor opined, “We set out to ensure that both stakeholders – employers as well as students – fully enjoyed the best possible experience and hospitality on campus. There was continuous engagement with both employers and students leading up to the event to ensure that they received timely updates and knew exactly what to expect and more importantly, how they would be able to maximise the impact from attending the event. According to him, despite some students still in their hometowns and home countries, they were encouraged to send their CVs to the organiser to be made available to all employers. Close to a thousand CVs from students were received as a result of this initiative. In conjunction with the mega career fair, APU also launched its “Exclusive Partner Engagement Programma” which is a unique motivating factor to ensure where the university will assist employers in the key areas of Talent Acquisition, Upskilling and Retention. “I think APU has done a better job compared to many others in preparing their students or young professionals to come into the workforce,” stated Sanjai Sidhu, Executive Director, BDO Governance Advisory Sdn. Bhd. Sanjaiy expressed his happiness for BDO, the 5th largest accounting firm in the world, to formalise its partnership with APU under the engagement programme. “Today, we are formalising our position as a partner of APU and we are looking forward to that turning into recruitment.” BDO has hired APU graduates since six years ago and for this event, Sanjaiy was accompanied by his two co-workers who had earlier graduated from APU with a BA (Hons) in Accounting and Finance specializing in Forensic Accounting degree, and the other with a BSc (Hons) in Computer Science degree. “They are two of my higher performers, two pillars of students that I am involved with. What I see in them is an absolute combination of ‘I can do’ and ‘I need to learn something new’ spirit – a desire for constant self-improvement,” Sanjaiy elaborated. “Right now, we are looking to hire people for the forensic unit, IT, and cybersecurity. Apart from academic performance, what I am looking for from job seekers is the attitude, enthusiasm, and people who can appreciate the hurdles and come back to me with their alternate approaches, confidence and creativity. “I am satisfied with the talent search today. I have seen many very promising resumes, and I have spoken to very promising people. I am happy.” Sanjaiy wound up. Syakirah Aisha, a human resources personnel from AxiAsia Network, an IT Solutions provider shared, “This is our first time joining the mega career fair with APU, we didn’t expect the turnout would be so good. It is a very good experience. We are targeting to recruit four cloud engineers, two network security engineers, and we also have positions like product managers.” “I think today’s response in the career fair is a clear testament of what APU students stand for and what you can see from them, the drive! Today’s response shows that APU students want to drive their success throughout their campus career and also follow up with their actual careers,” said Vishnu Varthan, Hiti Asia IT Services. It is worth mentioning that there were also jobs offered on the spot by employers like KPMG and Maybank, recruiting the most suitable candidates who meet the job requirement. Generally, the positive feedback from employers bears testimony to the distinctive quality of APU’s students that has been a key differentiator for Asia Pacific Institute of Information Technology (APIIT) and then APU in the industry for the past 30 years since APIIT was established. This also reaffirmed the Institution’s consistently strong employability record over the years, including achieving 100% employability in the Tracer Study conducted by the Ministry of Higher Education. The event had created golden opportunities for APU’s graduating students to secure employment and internship, whereas the job recruiters had first-hand, direct access to a large pool of talented, professionally developed students. “I have submitted my resume at the booths of Deloitte, Swift, PwC, Schlumberger and First Capital Management because the jobs offered by these companies are relevant to my degree in International Business Management,” said Kizuna Kuramoto, an international student from Japan. KPMG, a global network of professional firms providing audit, tax, and advisory services, is offering jobs on the spot and actively recruiting potential employees at APU Mega Career Fair. “I am interested in and looking for a cybersecurity job because it is my major and today is my first step towards finding the job I want the most, conveniently at the campus,” said Smonov Matrey from Kazakhstan. The event even attracted undergraduates beyond APU, as Rachael Rings, Siti Nabilah Mohd Noor and Norliana Akilah Mohammad Adam walked in from Universiti Kuala Lumpur (UniKL) and discovered that the event was a good opportunity for all graduates to come and look for a job. They shared that they would like to give it a try after seeing an advertisement on APU’s Instagram. Summarising the outcome of APU Career Fair 2022, Prof. Dr. Ho shared, “It was very heartwarming to see many of our amazing alumni coming back to campus representing their companies to recruit our current graduates and students. We are delighted with the enthusiastic response that we received from employers. “Even more gratifying were the highly positive comments received from employers during and after the event regarding the quality of our students, the organization of the event and the APU campus itself. We will plan to organise events such as this regularly in the future, just as we did before the pandemic,” he concluded.
GUIDING MILLENNIAL STUDENTS TO EXPERIMENT WITH THEIR OWN START-UPS

Budding entrepreneurs at Asia Pacific University feel empowered to crystallise ideas, build organisations brick by brick

The Enterprise @ APU forum provides a platform for students to explore their entrepreneurial ambitions and to bring ideas to reality. It features the APU Sandbox Incubation Centre (ASIBX) that organises talent development programmes on-campus, which provides a pathway for students to have entrepreneurship as a career option.

The Enterprise @ APU is composed of a team of 25 APU academics with technology and business expertise, and has more than 200 student participants in their programmes, with one aim – to build their entrepreneurial skills and transform their mindset,” said Kirana, who feels that while there is demand for luxury items, few can afford to buy them.

“Perhaps, a start-up that offers rental is a better option,” she said.

Sharvin, who chose to complete his 16-week internship at ASIBX, said it gave him the opportunity to “forge his own ideas” and he decided board games are his forte.

He hopes his new board game Master of the Eoons, will be marketable in the future, with other board games in the pipeline.

Vishal, currently vice-president of the Enterprise Club, also known as the e-Club, feels passionate about the organisation set up for students by students.

“At the committee level, we organise multiple workshops and activities for the students to develop and train their minds to think as an entrepreneur would. As a good example, Jason Chew, the founder of the codeless movement in Malaysia and CEO of Kopibao, taught students to create their very own minimal viable products (MVP) with minimum coding,” Vishal recalled.

“The students are taken on company visits with a team and show them how companies were created, built and scaled-up, and the various challenges faced by the founders.”

He added that a Venture Day Carnival, was created, built and scaled-up, and the various challenges faced by the founders.

“Together with APU, we will continue to heighten our efforts in building a robust talent ecosystem and enhancing the skills and capabilities of the workforce, especially in the aviation industry, aligned with the national agenda to enhance digitalisation, improve digital infrastructure, and build a more trusted and secure digital ecosystem.”

Concurring, Datuk Parmjit Singh said, “This is an interesting programme and I am excited to see the first collaboration between us and MAB Academy, for it is a starting point to sharpen our hired hands through micro-credentialing that can be accepted as credits for an academic degree, even up to the Masters’ level. I hope this relationship continues to reinforce APU’s status as a Premier Digital Technology University as endorsed by the Malaysia Digital Economy Corporation (MDEC). In addition, the collaboration will also allow our students and staff the possibility of applying their skills and knowledge in technology and innovation, by working on joint research projects with MAB Academy.

Moving ahead, APU and MAB Academy will include micro-credential offerings – such as Leading Digital Business Transformation, Digital Strategy & Analytics, Digital Marketing, Digital Finance, Digital Thinking & Innovation, Artificial Intelligence (AI), Internet of Things (IoT), Virtual / Augmented Reality (VR/AR), Security & Forensic Tech, Data Management – between the various tech-focused courses held such as Professional Certificate in Digital Leadership, and Professional Certificate in Digital Technology.

At the same time, this valuable collaborative tie will also benefit graduating students from APU through opportunities for job placement at MAB Academy.
<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb-22</td>
<td>CEO of Asia Pacific University Sdn Bhd Datuk Parmjit Singh named EY Entrepreneur Of The Year (EOY) 2021 Malaysia</td>
<td><a href="https://www.apu.edu.my/media/news/2504">https://www.apu.edu.my/media/news/2504</a></td>
</tr>
<tr>
<td>2</td>
<td>Mar-22</td>
<td>Collaboration Between Asia Pacific University of Technology &amp; Innovation (APU) and Nine Universities in ASEAN and Africa</td>
<td><a href="https://www.apu.edu.my/media/news/2499">https://www.apu.edu.my/media/news/2499</a></td>
</tr>
<tr>
<td>3</td>
<td>May-22</td>
<td>Team Bonding Activities at APU</td>
<td><a href="https://www.apu.edu.my/media/news/2674">https://www.apu.edu.my/media/news/2674</a></td>
</tr>
<tr>
<td>4</td>
<td>May-22</td>
<td>MAB Academy and APU Collaborate to Enhance Workforce Digital Readiness</td>
<td><a href="https://www.apu.edu.my/media/news/2552">https://www.apu.edu.my/media/news/2552</a></td>
</tr>
<tr>
<td>5</td>
<td>May-22</td>
<td>CMT Association Partners With Asia Pacific University Of Technology</td>
<td><a href="https://www.apu.edu.my/media/news/2500">https://www.apu.edu.my/media/news/2500</a></td>
</tr>
<tr>
<td>7</td>
<td>Jun-22</td>
<td>Trip to explore Malaysia’s Cameron Highlands</td>
<td><a href="https://www.apu.edu.my/media/news/2618">https://www.apu.edu.my/media/news/2618</a></td>
</tr>
<tr>
<td>8</td>
<td>Jun-22</td>
<td>APU’s Information Technology &amp; Computer Science Students Won Multiple Awards At International Innovation Arsvot Malaysia 2022</td>
<td><a href="https://www.apu.edu.my/media/news/2604">https://www.apu.edu.my/media/news/2604</a></td>
</tr>
<tr>
<td>13</td>
<td>Jun-22</td>
<td>Digital Skills For The Era Of IR 4.0 In Facing The VUCA World</td>
<td><a href="https://www.apu.edu.my/media/news/2585">https://www.apu.edu.my/media/news/2585</a></td>
</tr>
<tr>
<td>14</td>
<td>Jun-22</td>
<td>Coming Out Stronger With UK Based CMI Dual Accredited Degree At APU</td>
<td><a href="https://www.apu.edu.my/media/news/2577">https://www.apu.edu.my/media/news/2577</a></td>
</tr>
<tr>
<td>16</td>
<td>Jul-22</td>
<td>Virandeep Singh, an International Business Management student at APU, becomes the first Malaysian to score 1,000 runs in Twenty20 International (T20) cricket</td>
<td><a href="https://www.apu.edu.my/media/news/2686">https://www.apu.edu.my/media/news/2686</a></td>
</tr>
<tr>
<td>17</td>
<td>Jul-22</td>
<td>8th Consecutive Year Of IEM Gold Medal Awards For APU Engineering Students</td>
<td><a href="https://www.apu.edu.my/media/news/2670">https://www.apu.edu.my/media/news/2670</a></td>
</tr>
<tr>
<td>20</td>
<td>Jul-22</td>
<td>Maybank Techies Internship Programme Launched At APU</td>
<td><a href="https://www.apu.edu.my/media/news/2609">https://www.apu.edu.my/media/news/2609</a></td>
</tr>
</tbody>
</table>
SDC 9 Related Activities 48
Research Publication 36

TEAM HORIZON FINISHED 1ST RUNNER-UP IN THE SEAR PLC DESIGN COMPETITION 2022

Scribbles the general system requirements for Automation Studio in OneNote and manages to clarify the required function block as well as the system components with one another based on the team's understanding.

Every engineering student is encouraged to learn new technologies and exhibit skills required of future engineers who operate in a constantly changing environment. Future graduates also have to exhibit creativity and innovation in solving problems.

That is exactly what our Engineering students Wong Chee Kei, Suah Jing Ye and Wong Chee Sheng (team Horizon) did recently. The trio qualified for the finals round of the SEAR PLC Design Competition 2022, where they finished 1st runner up.

The SEAR PLC Design Competition 2022 jointly organized by the Institution of Mechanical Engineers, Asia Pacific University of Technology & Innovation (APU) and Republic Polytechnic Singapore.

Prior to the competition, the event organizer held a workshop on the use of Automation Studio to familiarize the participants with the steps and fundamentals, allowing them to better understand the software.

Automation Studio is a circuit design, simulation and project documentation software for fluid power systems and electrical projects conceived by Famic Technologies Inc.

It is used in CAD, manufacturing, and training. Engineers, trainers and service and maintenance personnel are the primary users of Automation Studio. The software is designed for use in universities that teach industrial subjects like electrical engineering, automation, and maintenance. Modelling and simulation are used to demonstrate theoretical aspects.

All participants were surprised by the missing runtime directory error in the software installation process for a Programmable Logic Controller (PLC).

The competition was enjoyable and interesting for us because it was our first time participating in such an event. Our team is able to properly utilise the software with the fundamentals of Automation Studio in OneNote and manages to clarify the general system requirements for the system components with one another based on their understanding.

The question was shared from a Google doc, and the competition lasted for 3.5 hours in total.

Team Horizon scribbles the general system requirements in OneNote and manages to clarify the required function block as well as the system components with one another based on their understanding.

Following that, they began building the system from the first step and progressed to the fifth steps. Their group approach to the problem from a programming standpoint, using flags and variables to solve it, but they quickly realised that it was not feasible due to the nature of the software.

They devote considerable time to determining how to prevent the system from entering an infinite loop in steps 4 and 5. When they did, the time remaining was insufficient to complete the rest of the question.

Team Horizon were unable to complete the question and only managed to successfully build up to step 5 without error but they were able to submit the file along with the simulation video to the link provided and began to prepare their 5 minute Q&A session, followed by a 5 minute Q&A session.

This carnival and competition hosted by the Institution of Mechanical Engineers (IME) and the Republic Polytechnic Singapore.

In 2021, Asia Pacific University of Technology & Innovation (APU) won three awards in the Innovation, Innovation, and Design on e-Learning (IIDEL) category. The successful trend continues this year where APU took home four awards: silver and one bronze.

The IIDEL competition featured nearly 300 teams, the majority of which were a final year and postgraduate students from various local universities including international universities from Malaysia, Singapore.

APU, on the other hand, sent several junior and senior teams to gain experience and showcase their innovative ideas.

Team 1 formed by Christina Mahanta and her team 1 presented the project and Wong Tei Ying introduces Chambot.

Chambot is a chatbot that promotes Chama is a digital learning medium that benefits agricultural producers and disseminates the knowledge of spreading knowledge.

They build this system for their Introduction to Artificial Intelligence (All) module in level 1, semester 2 of their Software Engineering Degree, and they are now in their second year.

Tan Xiaw Hang: a Diploma in Information and Communication Technology student representing team 1 presented Gambot, an expert system designed to guide and assist people seeking information about Gambus. This system will ensure users have a great experience by providing them with some quick quizzes as well as bringing back traditional Malay music instruments.

Diploma in Information and Communication Technology with a specialism in Software Engineering students Ng Jian Wei, Tan Siew Nee, and Tan Yi Ting from team 3 presented KomX, a knowledge-based chatbot that promotes Kompong to both locals and foreigners interested in learning more about traditional Malaysian hand drums.

Furthermore, the chatbot can answer questions a user may have, about Kompong, and the topics covered by the KomX chatbot include the History of Kompong, where to buy Kompong, the roles of performers and events where a Kompong performance will take place, and the myth of Kompong.

Ts. Dr Vinothini Kasinathan and Ms Nur Amira Abdul Majid mentored teams 1, 2, and 3 to silver awards.

Chin Choy Yeng’s: final year project, Face Mask Detection System: Reduce the Spread of Coronavirus, also received silver awards mentored by Ts. Dr. Vinothini Kasinathan and Mrs Hairul Aisyah. This system was developed by students from Universiti Malaysia Pahang who developed a face mask detection system that would be implemented in educational institutions using deep learning algorithms capable of detecting different types and colours of masks as well as multiple faces at the same time.

Meanwhile, Yap Qin Yue’s Covid19 Identification System Using CT Scan images won a bronze award and was mentored by Ts. Dr. Vinothini Kasinathan and Dr Vazeerudeen Harneed.

All of the students showed interest in developing Bots, and by participating in this competition, they gained their first experience through an online competition and online presentation mode, answering judges and deming the system which is something to be proud of.” said Ts. Dr. Vinothini represented all of the teams.

This carnival and competition hosted by Universiti Putra Malaysia (UPM), allowed academics and students from higher learning institutions to showcase their innovative ideas/products/innovation in areas such as learning analytics, virtual augmented reality, e-learning pedagogy/ approach, multimedia tools, computer applications, mobile and systems applications and other related areas.
APU TEAM CROWNED GOLD AT ITEX 2022
Showcasing Creativity and Innovation at the International Level!

APU Team from the Center for Research and Development of IoT (CREDIT) has managed to secure yet another GOLD Award at the 33rd International Invention, Innovation & Technology Exhibition (ITEX 2022), since our last Gold award in 2019 which was before the pandemic.

The project which was crowned Gold was a Firefighting Drone capable of autonomous flight and could be deployed for firefighting autonomously. It can immediately respond and aid in evacuation of the civilians through laser-guided sensors which cut through smoke and other elements. It also uses its artificial intelligence solution to determine the best strategy to control or extinguish fire with its payload.

"Apart from supplying firemen with fire characteristics from an aerial view, it can work with them to extinguish the fire with real-time fire analytics. The team worked on a novel solution using the skills and knowledge they acquired in their engineering degree programme at APU."

The judging process was not an easy one, as participants will need to satisfy the following criteria to be qualified as a potential gold medalist:

- Criterion 1: Novelty and inventiveness (new, original, creative, unique)
- Criterion 2: Usefulness and application (solving problem and contribution to industry)
- Criterion 3: Presentation and demonstration (able to demonstrate knowledge, functionality and product readiness)
- Criterion 4: Market and commercial potential (market spread, affordability, product market life span)

APU’s Team was handpicked to receive the gold award for their ability to map out big fire incidents to coordinate firefighting efforts between humans and drones, as well as its creativity and capability to put out fire remotely from a safe distance which won the heart of the judges. Special Thanks to: Prof. Ir. Ts. Vinesh Thiruchelvam and Mr. Krishna Ravechandra for the guidance and support throughout this project.

The project aims to reduce civilian harm and property damage from fire incidents through an autonomous drone solution. The collaboration’s ultimate goal is to prepare future-ready digital talents who can now work on real-world projects arising from a sector that is rapidly digitally transforming.

Highlights of this MoA include:
- MPA involvement on APU’s Industry Advisory Panel (IAP).
- The APU Sandbox team will also have an opportunity to learn from the MPA member start-ups in venue building areas.
- APU students will now be linked with industry-led projects which can be worked on as final-year projects, Post-Good dissertations or working at MPA-registered members/partners.

The MoU’s ultimate goal is to prepare a future-ready digital talent which can now work on real-world projects arising from a sector that is rapidly digitally transforming itself.

In order to be successful, new digitalized solutions must be developed based on a deep knowledge thorough understanding of the processes and flows of the specific field of application. "MFA will always be ready to arrange sharing sessions and case study analysis to provide the academic side with real-world insight into pain points, problem statements, and actual needs. We look forward to a long-term constructive collaboration for the benefit of students, academics, and the built environment," Dr. Vinesh added.

Meanwhile, Prof Ir. Ts. Vinesh stated that the MoA will allow APU to partner with Malaysian tech start-ups to infuse emerging technologies into the property and construction sector while allowing our talents to engage directly with the industry.

"We are proud and excited to be collaborating with MPA on this historic event. Technological innovation and entrepreneurship DNA have the potential to alter the face and trajectory of a country’s tech start-ups."

"Future market stability will be ensured by technologies that have the potential to either improve or transform, preserve and tailor improvement functional values within the sector. Given the size of the market and development potential, as well as Malaysia’s exciting tech scene, this partnership has the potential to provide incredible opportunities, particularly in the property and construction sector, he added.

There is a growing awareness of technological solutions for Malaysian tech start-ups in the property and construction sector throughout Asia, particularly in Malaysia. This MoA between MPA and APU is yet another concrete achievement that strengthens relationships with multiple entities in Malaysia.

According to Dr. Daniele, MPA members — mostly Malaysian tech start-ups — are very excited about this collaboration with APU and hope to contribute industry insights, workshops, and mentoring APU students. "With the world's economy being digitized, and the ability to adapt is a prerequisite for success, and MPA members are eager to collaborate with APU to open students’ minds to and prepare them for the future. Every aspect and layer of our work, learn, and play lives is infiltrated by technology,“ he explained.
CONGRATULATIONS TO ALL MICROSOFT INNOVATIVE EDUCATOR EXPERTS!

7 APU Educators just earned a spot in the MIE Experts Programme!

Back in September 2021, three of our academicians were recognised as the Microsoft Innovative Educator (MIE) Experts. Today, we are honouring another 7 of our inspiring educators who had worked relentlessly to earn a spot in the second round of the Microsoft Innovative Educator (MIE) Expert programme 2022/2023!

Each year, Microsoft selects Innovative Educator Experts to be part of this exclusive global community paving the way for their peers to share ideas, try new approaches, and learn from each other.

In this MIE Expert programme, educators will be leveraging on the Microsoft technology to achieve new levels of productivity, implement useful digital tools to expand learning opportunities for students, and increase student support and engagement. This also further enhances the overall lesson plans and facilitate personalised learning.

The effective use of MS Teams, MS Whiteboard, MS OneNote and other tools not only makes a class more lively, but they can also create a more inclusive learning environment that stimulates collaboration and inquisitiveness, as well as allowing our lecturers to collect data on student performance.

The MIE Expert programme is an annual programme dedicated to recognising global educator visionaries through self-nomination.

A MIE Expert is exposed to first-hand information and invitation to Microsoft educator conferences & publications, certification and recognition badges as well as gaining access to exclusive Microsoft Educator Network privileges.

Special thanks to Mr. Jerry Chong Chean Fuh, Dr. Freddy Tan Kheng Suan and Ms. Sreesha Prathi Cadapa for initiating the session with our respective academicians in sharing relevant knowledge and necessary training to support our colleagues in becoming better educators!

In an increasingly digital world, technology will continue to evolve. Educators must remain well informed and proactive to developments in technology in education.

To step up their game, our following educators have exhibited their competency in using Microsoft tools extensively in their classes while enriching the teaching and learning experiences to ensure our students are right on track.

- Dr. Janitha Kularajasingam (School of Marketing and Management)
- Ms. Akansha Mandhana (School of Technology)
- Mr. Mohamad Firdaus Che Abdul Rani (School of Computing)
- Ts. Dr. Siti Azreena Binti Mubin (School of Computing)
- Mr. Wong Chung Wei (School of Computing)
- Ts. Dr. Alexander Chee Hon Cheong (School of Engineering)
- Ms. Goh Yong Lin, Mindy (School of Media, Arts and Design)

To their performance.

To step up their game, our following educators have exhibited their competency in using Microsoft tools extensively in their classes while enriching the teaching and learning experiences to ensure our students are right on track.

Ms. Goh Yong Lin, Mindy (School of Media, Arts and Design)

Ms. Akansha Mandhana (School of Technology)

Mr. Wong Chung Wei (School of Computing)

Ts. Dr. Alexander Chee Hon Cheong (School of Engineering)

Ms. Goh Yong Lin, Mindy (School of Media, Arts and Design)

The effective use of MS Teams, MS Whiteboard, MS OneNote and other tools not only makes a class more lively, but they can also create a more inclusive learning environment that stimulates collaboration and inquisitiveness, as well as allowing our lecturers to collect data on student performance.

The MIE Expert programme is an annual programme dedicated to recognising global educator visionaries through self-nomination.

A MIE Expert is exposed to first-hand information and invitation to Microsoft educator conferences & publications, certification and recognition badges as well as gaining access to exclusive Microsoft Educator Network privileges.

Special thanks to Mr. Jerry Chong Chean Fuh, Dr. Freddy Tan Kheng Suan and Ms. Sreesha Prathi Cadapa for initiating the session with our respective academicians in sharing relevant knowledge and necessary training to support our colleagues in becoming better educators!

In an increasingly digital world, technology will continue to evolve. Educators must remain well informed and proactive to developments in technology in education.

To step up their game, our following educators have exhibited their competency in using Microsoft tools extensively in their classes while enriching the teaching and learning experiences to ensure our students are right on track.

- Dr. Janitha Kularajasingam (School of Marketing and Management)
- Ms. Akansha Mandhana (School of Technology)
- Mr. Mohamad Firdaus Che Abdul Rani (School of Computing)
- Ts. Dr. Siti Azreena Binti Mubin (School of Computing)
- Mr. Wong Chung Wei (School of Computing)
- Ts. Dr. Alexander Chee Hon Cheong (School of Engineering)
- Ms. Goh Yong Lin, Mindy (School of Media, Arts and Design)

In this MIE Expert programme, educators will be leveraging on the Microsoft technology to achieve new levels of productivity, implement useful digital tools to expand learning opportunities for students, and increase student support and engagement. This also further enhances the overall lesson plans and facilitate personalised learning.

The effective use of MS Teams, MS Whiteboard, MS OneNote and other tools not only makes a class more lively, but they can also create a more inclusive learning environment that stimulates collaboration and inquisitiveness, as well as allowing our lecturers to collect data on student performance.

The MIE Expert programme is an annual programme dedicated to recognising global educator visionaries through self-nomination.

A MIE Expert is exposed to first-hand information and invitation to Microsoft educator conferences & publications, certification and recognition badges as well as gaining access to exclusive Microsoft Educator Network privileges.

Special thanks to Mr. Jerry Chong Chean Fuh, Dr. Freddy Tan Kheng Suan and Ms. Sreesha Prathi Cadapa for initiating the session with our respective academicians in sharing relevant knowledge and necessary training to support our colleagues in becoming better educators!

In an increasingly digital world, technology will continue to evolve. Educators must remain well informed and proactive to developments in technology in education.

To step up their game, our following educators have exhibited their competency in using Microsoft tools extensively in their classes while enriching the teaching and learning experiences to ensure our students are right on track.

- Dr. Janitha Kularajasingam (School of Marketing and Management)
- Ms. Akansha Mandhana (School of Technology)
- Mr. Mohamad Firdaus Che Abdul Rani (School of Computing)
- Ts. Dr. Siti Azreena Binti Mubin (School of Computing)
- Mr. Wong Chung Wei (School of Computing)
- Ts. Dr. Alexander Chee Hon Cheong (School of Engineering)
- Ms. Goh Yong Lin, Mindy (School of Media, Arts and Design)
The concept of teaching came to us during an invitation by our Student Services to do a one-hour session at Pavilion Bukit Jalil for Computer Science," she explained.

"That unplugged session with the concept of algorithms was well received which inspired us to bring ViRa to primary school children as a way of giving back to society," she said.

"Ts. Dr. Vinothini and I are hoping for more opportunities to teach underprivileged children in other parts of the country," she added.
EMBED SOCIAL CONSCIOUSNESS AND THE VALUES OF VOLUNTEERISM AMONG APU STUDENTS

While students are still pursuing a diploma or degree on campus, APU helps to shape their personality by aiming to mould them into tomorrow’s leaders. Before entering the real world, these future graduates are also groomed to becoming social entrepreneurs and good corporate citizens, besides their professional training and academic studies.

To strengthen its commitments towards nurturing students to be self-sufficient, practising empathy, and being good corporate citizens, APU has joined hands with The Giving Bank Foundation (TCB) – a Malaysian NGO who engage with humanitarian causes and social-cultural efforts locally and internationally. This MoU will embed the values of volunteerism and social responsibility, besides their professional training and academic studies.

“This could be achieved by instilling leadership qualities in APU students and developing them into social entrepreneurs, who are capable of identifying problems and taking action against unjust social issues. They will be able to address social situations and uphold human dignity. Instead of being passive observers, TCB affords students the opportunity to engage with social issues, take the initiative and seek alternative solutions,” said Assoc. Prof. Dr. Jason Turner, APU’s School of Business Head, who attended the signing ceremony.

APU will also host a TCB speaker at the campus each year as part of the APU CSR Programme To Help Underprivileged Children, and promote external engagement in areas such as education, health, humanity culture, sustainability, and the empowerment of women.

Initiated by the School of Business, this MoU highlighted opportunities for all APU students, regardless of the programmes they are studying on, to complete 4 months internships with TCB.

“Engaging with TCB reinforces the values, providing internship and business-related opportunities and exposure. For universities to add further value to the student experience, such partnerships are important to create not only the graduates of tomorrow but the leaders of today,” concluded Dr. Hari Narayanan, APU’s Vice-Chancellor.

The signing ceremony was also attended by Mr. Arnaud Marolleau, Vice President, TCB; Prof. Dr. Andy Seddon, Senior Advisor, ReGov; Dr. Janson Ang, Founder & President, TGB; Prof. Dr. Jason Turner, APU’s School of Business Head; and Mr. Ahmad Nazri Razali, Academic Leader, International Relations, APU; and Mr. Kennimrod Sariburaja, Programme Director, Partnerships & Standards, APU; Prof. Dr. Jason Turner, who attended the signing ceremony.

The Giving Bank Foundation (TGB) founder, Mr. Janson Ang, said “The youth with the world and their humanity is our mission,” added Ms. Ashley Yemural Mutanaugwa, Youth Division Director, TCB.

“We are delighted to formalise the relationship we have with The Giving Bank Foundation and the opportunities it affords our students. Graduates from APU embody the values of the institution professionalism, creative problem solving, a global and social mindset and high emotional intelligence. Engaging with TCB reinforces these values, providing internship and business-related opportunities and exposure. For universities to add further value to the student experience, such partnerships are important to create not only the graduates of tomorrow but the leaders of today,” concluded Dr. Hari Narayanan, APU’s Vice-Chancellor.

The signing ceremony was also attended by Mr. Arnaud Marolleau, Vice President, TCB; Prof. Dr. Andy Seddon, Senior Director, Partnerships & Standards, APU; Mr. Kennimrod Sariburaja, Programmes Leader, International Relations, APU, and Mr. Ahmad Nazri, Academic Leader, Law Economics & International Relations, APU.

This MoU will embed the values of volunteerism and being a good corporate citizen amongst APU students, and promote external engagement in areas such as education, health, humanity culture, sustainability, and the empowerment of women.
SAVING LIVES WITH FLOOD-ASSIST DRONE: A BRAINCHILD OF MULTIDISCIPLINARY ENGINEERING STUDENTS AT APU

This project has made Team Delta APU the Grand Prize winner at the Intel Industry-University Challenge 2022. The project was supervised by lead engineer Prof. Narendran. A team made up of nine engineering students from APU, namely Mr. Murali, Mr. Shafique, Mr. Yumin, Mr. Viladaskar, Mr. Hoon, Mr. Kim, Mr. Chong, Mr. Lim and Mr. Ang, has been working on the project.

Supervised by Ir Narendran Ramasenderan, Senior Lecturer at APU’s School of Engineering and Technology, the team has been working on a multidisciplinary project that aims to develop a flood-assist drone. The team consists of: (i) a mechanical engineering student, (ii) an electrical engineering student, (iii) a mechatronic engineering student, (iv) a computer science student, (v) an electronic engineering student, (vi) a software engineering student, (vii) a mechatronic engineering student, (viii) an electrical engineering student, and (ix) a software engineering student. The team is also a finalist in the Global Cybersecurity Challenge (GCC) 2022.

At the packed hall holding the final judging session of the Intel Industry-University Challenge 2022, Team Delta APU led by Mr. Ng Joo Kiat (centre) is pitching their ideas to the panel of judges.

Fellow Malaysians are increasingly worried about the occurrence of floods, especially after the nation’s worst floods struck at the end of 2021, which left dozens dead, displaced more than 60,000 people, and caused an estimated RM1 billion in overall losses.

To minimize the losses caused by floods, early reconnaissance and search & rescue (SAR) are of utmost importance. This is where the team came into the picture as they have put their heads together to develop an integrated system that can assist in flood monitoring and rescue operations.

This system is functional and provides real-time data to the rescue teams. The team has developed a flood-assist drone that can be used to locate the location of the floods and send out SOS signals to the Fire and Rescue Department (FRD) Malaysia. It could also trigger a scout drone and a surveillance drone for further action. The drone also has a Natural Language Processing (NLP) chatbot where it can detect mixed languages and convert them to English.

“Floods strike, usual routes that are used to travel to the affected areas may be flooded, these drones can provide a system in our work could help people determine if the road is swamped. This is done by a flood model using YOLO – an algorithm that uses neural networks to provide real-time object detection. As this model is trained to detect people and other flood-related objects, explained Ng Joo Kiat, the team leader.

At the packed hall holding the semi-final judging session of the Intel Industry-University Challenge 2022, Team Delta APU led by Mr. Ng Joo Kiat (centre) is pitching their ideas to the panel of judges.

Furthermore, LoRa sensors integrated into the drones are for the detection of flood parameters, they are therefore, they are placed in flood-prone zones before the flood occurs. The Integrated System is also complemented by real-time kinematics, or RTK Sensors, that are used for drone positioning with GPS to increase the accuracy of the drone delivery.

The team won the Smart Disaster category with prizes worth approximately RM10,000 consisting of five units of Microsoft Surface Laptop Co. Their victorious joy was also shared by Mr Krishna Ravinchandra, tutor of SoE, as well as supporters from the Centre of Research and Development of IoT APU.

Commenting on his students’ success in this competition which managed to attract the interest of many participants from universities and industries since it was launched in 2017. Ir Narendran Ramasenderan enthused, “I am very proud that my students are not only trained in a classroom but rather towards a pilot prototype deployment in the real industrial context!”

He said the trio had demonstrated their technical skills in developing autonomous drones and hardware integration in AI through a smart app. All of these were developed by them from scratch using the hardware they had at APU and integrated with the Intel Open VINO Solution, an open-source tool for optimizing and deploying AI inference.

“Their greatest strength was their teamwork in working together to solve the problem and troubleshoot the hardware-software integration issues. I saw them go out of their way to think like an engineer, using the skills and tools at their disposal, to create a multidisciplinary system in the industry, they are very much prepared for their future professions,” cheered the proud supervisor.

Witnessing excellent outcomes which have been borne at the Centre of Research and Innovation (CRI) in partnership with the Information Technology with a specialism in Digital Security and Cyber Defence (ISCD) APU, Shafique indicated, “We hope to keep updated on what is going on around their township, street and home.”

This app was built using React Native, an open-source UI software framework created by Meta Platforms, as Shen Yien had some experience in it, and it is connected to our backend that was built with Django, a high-level Python web framework. The app is functional for both Android and iOS platforms, covering most mobile users, explained Rui Jun, who worked closely with Shen Yien on the technical development, mainly on coding the application.

According to statistics, property offences accounted for 54.8% of the 15,497 criminal cases recorded in 2019, with 16,497 incidents of house break-in and theft. In that year, although the number of cases slightly dropped to 14,040 in 2020, home security issues continue to be a concern, including those living in gated high-rise residential buildings.

This is a part of the structure of the Flood Assist Drone constructed by Team Delta APU - a surveillance drone equipped with ultrasonic sensors, Intel Up-Board, and the Arduino mega.
Chong Rui Jun (from left), Nicole Ee Sze Mien and Hoh Shen Yien are APU’s graduating students with impactful professionalism from respective training. Chong and Hoh study Computer Science with a specialism in Data Analytics, while Nicole studies Information Technology with a specialism in Digital Transformation.

As many residential areas lack a central management system that caters to both security and management, the team believes that the Kommunity app could potentially tie both market segments and connects its customers into one-stop community management and safety platform. Furthermore, the Kommunity app functionalities can also be catered to industrial and commercial office areas, for future expansion and sustainability of the business.

“Our vision is to foster safe communities where Malaysians can live effortlessly without worry. We hope that the Kommunity app could fully function as a one-stop community management platform that is security focus, hassle-free and easily accessible right within our fingertips as we believe safety is a priority for all Malaysians,” concluded the team leader.

KEY ENGAGEMENTS UNDER SDG 11 FOR 2022

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>May-22</td>
<td>APU Team Crowned Gold At ITEX 2022</td>
<td><a href="https://www.apu.edu.my/media/news/2678">https://www.apu.edu.my/media/news/2678</a></td>
</tr>
</tbody>
</table>

Morib Beach Banting, once a popular beach destination for both day-trippers and tourists, has seen a drop in visitors in the past years. However just recently, a different kind of visitor has descended on the idyllic beach.

APU students were the partakers in the Beach Cleaning programme with one common goal – to get rid of the beach litter and spread the message that rubbish is the greatest threat to the ecosystem.

Initiated by the School of Foundation, accompanying the students were Mr. Muhammad Ma’wa Bin Abdul Aziz and Ms. Ruthira Nair.

By the end of the outing, they’ve cleared and collected bags of rubbish which was mostly plastic-based trash such as grocery bags, water bottles, various food containers, polystyrene boxes, and countless unidentified items.

The fundamental goal of this excursion, as mentioned by Mr. Muhammad Ma’wa, is to encourage and instil more environmental conscious mindset to our students. This clean-up activity has definitely developed awareness on the importance of social responsibility towards the society and the environment, which is also consistent with the Sustainable Development Goals.

We have always prioritised environmental stewardship, environmental protection, and the preservation of mother nature. This time, the School of Foundation has undoubtedly made a difference to our environment through this programme.

Despite the physical exhaustion that followed, our students gained a lot from the experience and were able to form new connections like never before. It also enhances their communication skills while helping a good cause.

Most importantly, it is hoped that this endeavour would stimulate and create awareness on the importance of creating a sustainable environment among the younger generations and future generations to come.

GOAL 12: RESPONSIBLE CONSUMPTION AND PRODUCTION
Ensure Sustainable Consumption And Production Patterns
SOB STUDENTS HELP CLEAN UP CASING HILL AREA

Devoted to the elderly while raising awareness and being a part of nature by collecting 25 bags of plastic waste for recycling.

Volunteers began their day by donating and dedicating themselves to the elderly before cleaning up the surrounding area.

In conjunction with World Environment Month, School of Business (SoB) students from Asia Pacific University of Technology & Innovation (APU) participated in the ‘Casing Hill Clean Up Walk’ in Petaling Jaya, Selangor on 28 June 2022.

SoB’s corporate social responsibility (CSR) initiative, in collaboration with the Soroptimist International Club of Shah Alam (SISA) and APU’s Nursing Home, was embarked on to raise awareness and be a part of nature among the surrounding community in order to preserve the environment.

The event was also supported by the local community, particularly hikers, who, along with around 50 volunteers, including APU students and staff, began the event with breakfast with the elderly at Multicare Nursing Home and donated some cleaning supplies.

Some students were kind enough to distribute flyers to the homes, and Swisse provided food for all volunteers.

Their goal is to collect as much plastic from the surrounding area as possible. Plastic waste, polystyrene, and cigarette butts were among the most common types of rubbish collected.

They began the 6.2 KM morning walk around Casing Hill to collect rubbish and waste left by irresponsible individuals via the main routes led by two experienced hikers.

“It was such a great day because it had been raining for the past few mornings, but on that day, it was a great sunny day and it was a morning of sheer pleasure of having a breeze walk while managing to collect about 25 bags of plastic materials, which were then sent for recycling,” said SoB Lecturer Ms Cynthia Mala Paul Dorairaj.

After completing the entire process and returning to the home to have lunch with MultiCare’s elderly, they were greeted by the cleaners and store at the allocated recycle bins for collection on a weekly basis by the recycling company appointed by the local authority.

Recycled Content Material - Usage of recycled content as defined in accordance with the ISO 14021 in the building was established during the design phase. The recycle content of the materials used in the building makes up at least 10% of the total value of the project.

Storage and Collection of Recyclables - Recycle bins are provided throughout the building. These are then collected daily by the cleaners and store at the allocated recycle bins for collection on a weekly basis by the recycling company appointed by the local authority.

Other Initiatives & Campaigns Undertaken

- Use china cups/mugs and glasses rather than disposable cups for drinks where possible.
- Re-use envelopes for internal mail
- Use the blank side of printed paper for scrap pads before recycling
- Set printers/copiers to print duplex or double sided and only print documents when absolutely necessary
- Send e-mails instead of letters or faxes wherever possible
- Use paperclips (that can be reused) instead of staples

APU is passionate in implement greater change towards better environment & clean earth which will eventually bring positive effect on the economy and larger awareness among its staff and students.

Key takeaways from the event:

1. Students and staff were able to experience the joy of cleaning up the environment while raising awareness on the importance of recycling.
2. It provided an opportunity for the students and staff to bond and work together as a team.

APU Recycling Program

APU Recycling Program, in partnership with the Ministry of Science, Technology, and Innovation (MOSTI), saw Team Three Musketeers representing Asia Pacific University of Technology & Innovation (APU) emerge as the grand winners of the James Dyson Award (JDA) Challenge and walked away RM7,000 cash prize.

Chan See Mun and Lai Mei Sim, both 22, are Computer Science with a specialism in Data Analytics undergraduates, outsmounehed 141 other teams from Universiti Teknologi Malaysia (UTM) and Monash University Malaysia with ‘Path to Net Zero’, a solution formulated after a 24-hour ‘datathlon’ that aimed to reduce global greenhouse gas emissions using the latest technology.

Supervised by Mr Mafas Raheem, Lecturer at APU’s School of Computing, the team embarked on the challenge by taking up a data exploration task, studying the dataset provided by the organiser captured from the online platforms of collection of key metrics – Our World in Data and Climate Watch Data, to understand the relationships between the variables.

“As the dataset contains the societal information of each nation from 1990 to 2019, it set a narration to address the importance of modern industry’s contribution to a country’s economy and filling the needs of people’s energy consumption. However, as modern industry causes a lot of greenhouse gas (GHG) emissions, therefore, optimal solutions should be proposed for sustainable economic development,” said Mafas Raheem.

As a result, Chan See Mun and Lai Mei Sim came out with an interactive and comprehensive dashboard, which allows a full understanding of the carbon emission situation. They identified obstacles to achieving the net-zero emission target by proposing target solutions for the identified problems.

“We emphasized the ways to reduce GHG emissions through afforestation, reforestation, negative emission technologies, and hydrogen energy,” said See Mun who is in her second year of studies.

The finals were held on the 26th and 27th of November 2022 at Avila Arena, Bukit Jalil, where 10 teams were competing intensely. According to Three Musketeers, the competition was fierce since there were many teams consisting of postgraduate students from public and private universities that provided impressive solutions.

Recalling how had they made it, Mei Sim, a final year student said, “We spent the first two hours exploring and brainstorming to determine the general direction of the project and then start dividing the work to execute it. With the uncertainty of whether our solution met the requirements of the competition, the next 22 hours were bouncing between joy, struggle, diligence and self-doubt.”

“During the most exhausting times, it wasn’t about the prize anymore, but rather the conviction to complete the project ‘Path to Net Zero’ that kept us going. The keys to our win were the synergy of the team, our experiences, and the skills we have developed in the past,” elaborated Mei Sim.

Their supervisor agreed with her statement, by adding, “The girls relied on their experience participating in other competitions, especially ASEAN Science Explorers (ASEANSE) 2022 where they were among the top 19 winners in that competition. Our students always reflect on every competition they went through to seek improvements. For this competition, they tried to use familiar tools such as Microsoft PowerBI and Python-Pandas to develop solutions.”

To be more prepared, the duo communicated and discussed with Mr Mafas Raheem from time to time, especially on how to fully use PowerBI to deliver more meaningful solutions “Initially, we prepared to build a Machine Learning model on the PowerBI platform, later it was decided to go with data storytelling using an interactive dashboard due to the type of dataset given in the competition,” they explained.

Their strategy proved them right as the team defeated strong competitors and went all the way up to the tip-top. “It was a remarkable achievement, our students once again proved that they are capable of facing real-world data Science needs,” said Mafas Raheem, contentedly.

On a wider view, three musketeers admitted Big Earth Data Analytics has been very influential due to the generation of Big Earth Data from satellite observations of Internet-of-Things, models simulations, and other sources. While gearing up for the competition, they realised that applying the right technique to solve a contemporary environmental problem is always vital to offering high-quality information to decision-makers.

“Data analysis is important in impact measurement to assess the effectiveness of a particular policy or technology. The hidden key insights and underlying indicators affecting specific world issues could be identified using data analytics. Hence, professionals could propose solutions to address the problems identified accordingly,” elaborated See Mun and Mei Sim on the relevance of their studies.

Furthermore, they pointed out accurately, data analytics could provide a comprehensive understanding of the current situation, forecasting specific relevant factors which could help data analysts in understanding the possible consequences lying ahead.

Overall, data analysis allows professionals to get the full picture, thus enabling them to translate knowledge into action. With that being said, See Mun and Mei Sim believe that the knowledge they have gained on campus is promising to offer appropriate solutions to the current global challenges which will ultimately benefit the society in future.
APCORE TEAM EMERGES AMONGST TOP SIX FINALISTS IN KEYSIKT INNOVATION CHALLENGE 2022

APCORE members Kong Jee Ann, Jamie Yong How Peng, Wong Hui Yee, and Bryce Cheah Wei Jing gained valuable experience in California even though they are all new to carbon monitoring, drone construction, and data logging. Their Autonomous Carbon Monitoring Drone received some of the highest votes in the IoT challenge, allowing them to advance to the grand finals.

Members of the Asia Pacific Centre of Robotic Engineering (APCORE) 
Kong Jee Ann (Computer Science in Intelligent Systems), Jamie Yong How Peng (Computer Engineering), Wong Hui Yee (Information Technology) and Bryce Cheah Wei Jing (Foundations in Engineering) have changed dramatically since they emerged as the Top 6 teams in the KeySiktn Innovation Challenge 2022 grand finale in Santa Rosa, California.

The challenge was organised by Keysight Technologies Inc., a leading technology company that provides advanced design and validation solutions to help accelerate innovation to connect and secure the world. Through this competition, the Four Musketeers discovered many new things and admitted that taking part in the international challenge taught them many new values and was the most valuable experience they had since studying at Asia Pacific University of Technology & Innovation (APU).

“We entered this competition without high expectations. We simply wanted to give our best effort and had no idea that we would gain new and valuable experience,” said Kong Jee Ann.

They met new friends and participants from various backgrounds opened our eyes to many things. The friendship, laughter, and bond that we formed is extremely valuable. It is no longer a competition but a learning camp programme,” said Kong Jee Ann.

She spoke on behalf of the team and expressed gratitude to the entire APU community, especially Leo En Hao, Ng Khiang Yan, and Lam Cai Ven who helped with the drone hardware and Loo Yew Sen who helped with image processing, as well as other members of the APCORE, for allowing them to advance to the grand finale of the innovation challenge.

In this year’s challenge, all teams must submit details of an IoT innovation that provides carbon neutrality corporate assets, monitoring, multi-site monitoring, or community monitoring.

The device must communicate wirelessly, be easy to deploy by a non-expert in a secure manner and handle sensitive data via a detailed written plan and a short video showcasing their innovation.

Sensor effectiveness, AI capabilities, and cybersecurity resilience will be evaluated, with device prototypes evaluated by Keysight’s IoT Security Assessment software.

Furthermore, the challenge in preparing the Autonomous Carbon Monitoring Drone is not easy because they are unfamiliar with carbon monitoring, building drones, and data logging. In fact, they admit that what they have learned while competing in this challenge is only the tip of the iceberg.

Despite their lack of knowledge and experience, they are still confident with their drone because they received a lot of help from APCORE members, who sometimes pointed them in the right direction, especially their mentor Ir. Kumaresan Magaswaran and other lecturers.

They realized that, in addition to good design, they needed to work on their persuasive and presentation skills.

"Because the competition is also streamed live and there are many professional judges present, we initially feel nervous and anxious, which affects our presentation."

"Basically, our drone is ready and before flying to Santa Rosa, we have already improved and upgraded it with all of the necessary elements,” she said.

"So, in the future, we will overcome our anxieties and continue to work on improving and expanding our drone project, as well as competing in any future competitions."

APU students and APCORE members designed the Autonomous Carbon Monitoring Drone, which has the intelligence to analyze carbon footprint, flood areas, and other factors.

According to Ir. Kumaresan, he was proud of his students’ achievements especially when they managed to complete the additional futures such as a carbon dioxide detection system, autonomous flight, and other smart futures.

"This competition allowed them and other students who assisted them to gain valuable experience with autonomous drones. "If things line up in the future, they may be able to launch their own drone startup in Malaysia,” as it is currently one of the emerging sectors," he explained.

The Illinois Institute of Technology (USA) took first place with Tree of Life: Carbon Capture, followed by the State University of New York at Buffalo (USA) with Pizzocanter Sensor for Real-time Monitoring of 8 Greenhouse Cages with LoRa Communication and Vanderbit University (USA) with EcoBuddy: IoT OBD2 Monitoring Device for Fuel Efficiency and Emission Consciousness. The first-place winner receives USD$50,000 (RM153,240) in cash, followed by USD$25,000 (RM76,120) for second place and USD$20,000 (RM60,160) for third place, with all Top 3 winners also receiving USD$10,000 (RM3,000) in Keysight solutions for their university. Warsaw University of Technology (Poland) with its Cloud-Integrated Pollution Analyzer, APU (Malaysia) with its Autonomous Carbon Monitoring Drone, and HKC College of Technology (India) with its Carbon Neutrality were named as the finalist teams.

University Malaysia Sabah (UMS), UOW Malaysia KDU Penang University College (UOW Malaysia KDU), and Universiti Tunu Abdul Rahman (UTAR) also submitted entries, but APU is the only Malaysian/ South East Asian university to advance to the final round of this competition, which had 52 entries and 2,100 registrants from 106 countries.

SAF SENIOR LECTURER DR LEOW HON WEI’S RESEARCH PAPER PUBLISHED IN AN ESTEEMED JOURNAL

We are pleased to announce that a research article related to Green Finance by Dr Leow Hon Wei, Senior Lecturer from the School of Accounting and Finance (SAF) was recently published in one of the esteemed journals, Resources Policy, Volume 76, Elsevier Publication, Indexed from Web of Science (WoS) and SCOPUS Q1.

The research paper on Natural Resources Commodity Prices Volatility and Economic Performance: Evaluating the Role of Green Finance, aims to evaluate the importance of natural resources volatility, investment in energy resources, and innovation on the economic performance of the provincial data of China.

COVID-19 is one of the biggest sources of economic downturn around the globe with many global economic activities badly affected. Therefore, during this period, the role of natural resources commodity prices is equally important to determine the economic performance of a country.

This study uses novel panel data approaches, i.e., Pesaran unit root test, Westerlund cointegration approach, augmented mean group, and Dumitrescu Hurlin causality test.

The study found a positive impact on natural resources as well as green finance, investment in energy resources, and innovation towards uplifting economic performance.

Dr Leow’s study recommends stability in natural resources prices volatility, promotion of green financing, and more investment towards energy resources. The empirical outcomes from this study provide a novel path for achieving high economic performance.
INNOVATIVE ECOTOURISM & GREEN OCEAN INVENTION GAINS JAMES DYSON AWARD

The Synergy of APU Industrial Design and Engineering Students to address the global issue won them a ticket to the James Dyson Award International 2022 Competition

A recent study by scientists reveals that micro and nano plastics are in every human tissue they sampled. Aware of the global issue of plastic pollution, especially in the world's oceans, Industrial Design and Engineering students at Asia Pacific University of Technology and Innovation (APU) joined hands and tried to solve this problem with design thinking. This initiative won them a runner-up at this year's Malaysia James Dyson Award competition.

Team Techgasus, comprising of Industrial Design degree student Mostafa Marzouk and four Bachelor of Engineering in Mechatronic Engineering with Honours final-year students - Chan Jing Hung, Lim Cher Khi, Lim Xoon Yi and Tan Jia Hao, invented "Whalecro", an underwater propulsion vehicle with an all-new micro debris filtering system.

"Inspired by the filtered feeding system of the whale shark, we designed a whale-like structure with a filtering system in it that made up of Velcro strips, a commonly used material with a hook-like surface that can efficiently capture micro debris in the ocean," explained Chan Jing Hung, the team leader.

Chan and the engineering branch kicked off the project with numerous experiments, concept-proofing and prototyping. To maximise the efficiency of the micro debris capturing mechanism, they tested it with different designs and shapes on one of the beaches along the Straits of Malacca. Upon identifying the best design, the team continued with prototype building, refining and enhancing by using a motor to enable automation.

"Mostafa's role as an industrial designer is the cornerstone of our project as he transformed our technical idea into an attractive and visually appealing product without forgoing the ergonomics concept," said Chan.

According to him, the team members of different disciplines worked toward understanding each other's mindsets and how one approached a problem. Ultimately, this made the most valuable takeaway of the entire journey which took them months of hard work.

Their Lead Mentor, Mr Eekang Ooi, concurred and lauded the synergy between both disciplines. While the engineering students focused on the technical side, the industrial design student looked into the User Experience (UX), consumer market and transforming intangible ideas aesthetically to attract the end users. The combination of both sides' efforts brings an attractive and fully functional product to the market.

Ooi is a lecturer at the School of Media, Arts and Design (SOMAD). He mentored Team Techgasus for this competition together with Associate Professor of the School of Engineering (SoE), Dr. Sathish Kumar Selva Perumal.

Soon after Team Techgasus clinched runner status at the national level, they will be moving on to the James Dyson Award International 2022 competition which will be held in October with the top three winners. This is the third consecutive year APU won the National James Dyson Award.

In the more challenging international arena, Team Techgasus will showcase how Whalecro works - As the vehicle accelerates forward underwater, the water current will flow in the opposite direction of the vehicle. As a result, it pulled in the surrounding micro debris with the aid of current and passes through a series of motor-powered filters.

The rotating filters will then capture the micro debris as the water current flows through. The filtered ocean water will then flow out of the vehicle. Finally, a specially designed device is used to extract micro debris trapped on the filters where it can be easily brushed off and disposed of accordingly.

"In the future, the team could enhance the efficiency of the product by experimenting with different sizes or surface designs of Velcro straps. Furthermore, we would like to raise awareness of ocean pollution through eco-tourism. With a lineup of various products, raising more awareness of the manifestation of plastic pollution in our ocean is possible with hopes of one-day achieving ocean sustainability," concluded Ooi.

BEACH CLEANING INITIATIVE: 40 APU STUDENTS JOIN HANDS AT BEACH CLEAN-UP

Morib Beach Banting, once a popular beach destination for both day-trippers and tourists, has seen a drop in visitors in the past years. However just recently, a different kind of visitor has descended on the idyllic beach.

Armed with rubble gloves and rubbish bags, 40 APU students were the partakers in the Beach Cleaning programme with one common goal - to get rid of the beach litter and spread the message that rubbish is the greatest threat to the ecosystem.

Initiated by the School of Foundation, accompanying the students were Mr. Muhammad Mawwa Bin Abdul Aziz and Ms. Ruthira Nair. By the end of the outing, they've cleared and collected bags of rubbish which was mostly plastic-based trash such as grocery bags, water bottles, various food containers, polystyrene boxes, and countless unidentified items.

The fundamental goal of this excursion, as mentioned by Mr. Muhammad Mawwa, is to encourage and instil more environmental conscious mindset to our students. This clean up activity has definitely developed awareness on the importance of social responsibility towards the society and the environment, which is also consistent with the Sustainable Development Goals.

We have always prioritised environmental stewardship, environmental protection, and the preservation of mother nature. This time, the School of Foundation has undoubtedly made a difference to our environment through this programme.

Despite the physical exhaustion that followed, our students gained a lot from the experience and were able to form new connections like never before. It also enhances their communication skills while helping a good cause.

KEY ENGAGEMENTS UNDER SDG 14 FOR 2022

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jun-22</td>
<td>Beach Cleaning Initiative: 40 APU Students Join Hands At Beach Clean-Up</td>
<td><a href="https://www.apu.edu.my/media/news/2608">https://www.apu.edu.my/media/news/2608</a></td>
</tr>
<tr>
<td>2</td>
<td>Aug-22</td>
<td>Innovative Ecotourism &amp; Green Ocean Invention Gains James Dyson Award</td>
<td><a href="https://www.apu.edu.my/media/news/2691">https://www.apu.edu.my/media/news/2691</a></td>
</tr>
</tbody>
</table>
SAVING WILDLIFE BY ROAR & RUN - KNOWING THE PLAGUE OF THE TIGER

The extinction of the wild tiger will affect the environment and its sustainability with the collapse of biodiversity. To save the critically endangered Malaysia’s national animal – “Panthera Tigris Jackson”, the scientific name for the Malayan Tiger from disappearing, you can do something! Yes, you can participate in 5 kilometres of “Roar Run with Obstacles”, to feel and experience the plight of the wild tigers, and at the same time raise funds for the Malayan Tigers’ conservation works.

Collaborating with the Malaysian Conservation Alliance for Tigers (MYCAT), and De Montfort University (DMU), UK, the Integrated Sustainability & Urban Creativity Centre (ISUC) Student Chapter at APU is organising the run in hybrid mode on 18th December 2022 (Sunday) – with a physical run at APU and a virtual run at DMU.

The physical run with obstacles will be at APU’s campus at MRANTI Park, Bukit Jalil from 7.30 a.m. to 10.30 a.m, whereas the virtual run at DMU can be anytime and anywhere on the same date. Participants in the UK could run upload the map of completion and picture of them running to the organiser,” said Ms Abbhirami Sivarajan, ISUC Student Chapter advisor.

According to Rajveen Kaur, the appointed Malayan Tiger conservationist based at APU, this event was an outcome of the project that she pitched to the MYCAT office. Besides raising funds, it is intending to bring awareness to the importance of protecting the Malayan Tigers, to promote the ‘CAT Walk’ held by MYCAT.

The ‘CAT Walk’ is a flagship programme organised by Citizen Action for Tigers (CAT) under MYCAT. It calls upon citizen volunteers to patrol a critical wildlife corridor, identify signs of wildlife, and report poaching, illegal mining, and forest clearing.

Participating fees of those who are in Malaysia will be RM 30 for early birds, and RM 50 for a normal run; the virtual run participating fees in the UK is £5 per person. All proceeds will be channelled to MYCAT for saving the tigers.

The organiser is targeting 200 participants without an age limit, and the closing date for registration will be on 15th December. APU’s community and the general public can click on the registration link: https://forms.gle/9LDQ0V4cbU3ts5 to register themselves and stay connected with the organizer for more updates at https://linktr.ee/isuc_apustudentchapter

FLUFFY CHARITY MOVES BY APU STUDENT-VOLUNTEERS

Nurturing a love for animals and instilling a sense of respect for every living creature among the young generation, will ultimately lay a foundation for them to become better human beings.

Besides pursuing a degree for professional growth, APU students also enhance their personal development as caring individuals through co-curricular involvements such as that linked to animal protection.

In conjunction with World Animal Day 2022, animal-care volunteers from APU raised RM5,500 from the pets event day, which they organised on the campus earlier, and subsequently channelled it to the Society for the Prevention of Cruelty to Animals (SPCA).

World Animal Day is celebrated on Oct 4 every year. Their good charity moves earned them high recognition from the Royal Patron of the “Stray Free Selangor” programme, Tengku Permaisuri of Selangor Tengku Permaisuri Norashikin, at a ceremony held on 29th October 2022, at the SPCA centre located at Ampang, Selangor.

Fourteen student volunteers from APU happily met up with Tengku Permaisuri Norashikin, who graced the programme at the venue, and from whom their mentor Ms Abbhirami Sivarajan received a certificate of appreciation. APU community enjoyed a group photo opportunity with Her Royal Highness while she took a tour of the SPCA cat care centre.

At the same time, they also made the acquaintance of SPCA patron Tan Sri Lee Lam Thye, Chairman Christine Chin, as well as former Veterinary Services Department director general Datuk Dr Quaza Nizamuddin Hassan Nizam.

Since 2016, there were about 700 APU students have been volunteering at SPCA where they are trained to work at the animal shelter, walk the dogs, do cleaning jobs, and participate in events for raising public awareness on rescuing stray animals organised by the said society.

‘APU students through different fundraising movements had so far raised and donated cash and animal food worth RM50,000 to SPCA since 2016. They also contributed to regular voluntary works up to today,’ said Abbhirami.

Public donations have allowed SPCA to provide up to an 80% discount to rescuers who bring stray cats and dogs to SPCA to get them spayed and neutered. Keep up with the good charity, APU-ian!

APU’S CSR EFFORTS OF CREATING A MURAL FOR THE FURRYKIDS SAFEHAVEN

Universities as centres of knowledge generation and sharing play an important role in helping to solve social, environmental and sustainable challenges by inculcating social responsibility and sustainability mindsets amongst students.

Being socially conscious, and also grounded in the strong bond that had been formalised through an MoU signed with FurryKids Safehaven in October 2021, Asia Pacific University of Technology & Innovation (APU) initiated a monthly CSR programme within its community to provide a safer environment for stray and abandoned animals.

Following on from earlier fundraising efforts to reconstruct the animal shelter that had once been destroyed by flash floods, coupled with a series of voluntary works like bathing and vaccinating puppies for adoption drive, APU lecturers and students culminated their good works by painting a beautiful mural for the furry kids.
On 20th and 21st January 2022, supported by the School of Media, Arts and Design (SoMAD), members of APU’s Student Affairs Department created a cuddlesome mural on all walls of Furrykids Safehaven, an animal shelter situated in Seremban, that would surely bring smiles to the passerby.

Sacrificing their leisure time during off days, students and their lecturers worked hand-in-hand under the hot sun, to complete their masterpiece. The mural art depicted a group of entertaining cartoon-look animals, occupying a large area of the wall of about 2 metres by 8 metres.

Before they started working on the mural, students work together again to contribute their design skills for the community. It builds the spirit of togetherness, bringing us closer to one another through a shared passion for art,” commented Ms Debbie Liew, the Associate Head of School of Media, Art & Design.

Cherishing this CSR initiative by students and staff, Mr Gurpardeep Singh, Chief Operating Officer of APU remarked, “I am very impressed with the creativity and inventiveness shown by APU’s students in putting together this very impactful mural for Furrykids Safehaven. Congratulations also go to the team for raising the funds for this as well as the donation of much-needed food for our furry friends.”

Academicians who were involved in this good work included - Ms. Abhirmami Sivarajan, a lecturer from the School of Business; and lecturers from SoMAD - Mr. Wong Chee Meng, Mr. Fitri Anas Muhiddin, Mr. Jack Lai Yong Goat, Mr. Ozi Ali Khong, Mr. Saifullizan Abdul Wahab, Mr. Shazwan Halamy, Mr. Teay Siew Yen and Ms. Christine Lim Poi Shin.

Despite their busy schedule, over Childhood experiences influence who we become. However, sexual abuse has harmed some young lives, and for some, this has resulted in significant problems later in life. Right now, on average, a study estimates up to 100,000 kids in Malaysia may be victims of Online Child Sexual Exploitation and Abuse (OCSEA) based on Disrupting Harm in Malaysia Evidence on Online Child Sexual Exploitation and Abuse report published in September 2022. Victims were mostly girls between the ages of 15 and 18, with some being blackmailed to engage in sexual activities, having their sexual images shared without permission, or being coerced to engage in sexual activities with promises of money or gifts. In fact, this is a global issue that children face, not just in Malaysia!

To address this issue, the ASEAN MakeITSafe Project challenged youth across ASEAN to create ‘gamified projects’ that address social problems related to OCSEA issues through the power of design and which have a societal impact.

Stepping up to this challenge, Team C.A.R.E. (Computer Science, Cyber Security) and Cheryl Lim Wye Yee (Computer Science with a specialism in Data Analytics) from APU bagged 1st Runner Up in the virtual ASEAN MakeITSafe Hackathon 2022. They were pleasantly surprised when the Child Pro Tech prototype and design solutions they developed, which included games and AR interactivity, drew the attention of judges from world-leading companies.

“We chose to target parents because we want to approach OCSEA from a different angle or perspective,” he clarified while thanking their mentor, Ms Abhirmami Sivaragan for her assistance throughout the prototype’s design process by providing solid feedback and potential improvements.

“We will not stop competing and will most likely participate in more competitions in the future as we strive to deliver more sustainable solutions through innovation, and together, we can all play a part in making every childhood free from sexual abuse.”

At the same time, they received USD400 (RM1,873) in cash, and the organisers have stated that when the United Nations International Children’s Emergency Fund (UNICEF) holds its annual conference, an invitation will be extended for them to participate.

---

**EDUCATION TOOL ON ONLINE ABUSE AEXPLOITATION BAGS AWARD AT ASEAN MAKEITSAFE HACKATHON 2022**

Using gamification features as a support tool to teach, prevent online sexual abuse, and improve parent-child interaction, as well as address OCSEA from a new angle.

**KEY ENGAGEMENTS UNDER SDC 15 FOR 2022**

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan-22</td>
<td>APU’s CSR Efforts Of Creating A Mural For The Furrykids Safehaven</td>
<td><a href="https://www.apu.edu.my/media/news/2476">https://www.apu.edu.my/media/news/2476</a></td>
</tr>
<tr>
<td>2</td>
<td>Apr-22</td>
<td>International Mother Earth Day Was Comemorated By APU Students In A Fun And Creative Way</td>
<td><a href="https://www.apu.edu.my/media/news/2560">https://www.apu.edu.my/media/news/2560</a></td>
</tr>
<tr>
<td>3</td>
<td>Jun-22</td>
<td>Emerged 5th In ACP Championship Malaysia 2022</td>
<td><a href="https://www.apu.edu.my/media/news/2615">https://www.apu.edu.my/media/news/2615</a></td>
</tr>
<tr>
<td>5</td>
<td>Jun-22</td>
<td>Beach Cleaning Initiative: 40 APU Students Join Hands At Beach Clean-Up</td>
<td><a href="https://www.apu.edu.my/media/news/2608">https://www.apu.edu.my/media/news/2608</a></td>
</tr>
<tr>
<td>8</td>
<td>Nov-22</td>
<td>Future Data Scientists Are National Champions</td>
<td><a href="https://www.apu.edu.my/media/news/2743">https://www.apu.edu.my/media/news/2743</a></td>
</tr>
</tbody>
</table>
OVERCOMING MALAYSIA’S ACUTE SHORTAGE OF CYBERSECURITY PROFESSIONALS

Career opportunities at high as online fraud looms larger across various industries, says APU’s Dr Julia Juremi

Dr Julia Juremi (left) cautions that phishing attacks are on the rise, creating a high demand for skilled professionals to counter the rising incidences of cyber-related crimes.

"This type of online criminal activity is specialised, a form of social engineering where the attacker sends a fraudulent message designed to trick a person into revealing sensitive information or deploys malicious software known as ransomware on the victim's infrastructure," she said.

Dr Juremi feels that the current needs of the market are not being adequately met by the available supply of cybersecurity professionals, leading to financial institutions and banks being left in vulnerable positions.

"At APU, our cybersecurity courses are designed to cover all aspects, including defensive and offensive tactics in cybersecurity warfare.

"We have a team of 17 academicians with various specialties such as in ethical hacking, digital forensics, network security, and cloud security who teach and guide students on how best to detect and neutralise the threats," she said.

"The top facilities, which include a fully functional Security Operational Centre (SOC) and a cyber range, allow APU to create a hyper-realistic environment so students can study the various methods to neutralise a cyberattack on systems," she said.

Dr Julia stressed that the issue of cyberattacks has become global if it is not addressed at national level, it could threaten national security with the possibility of hackers breaching the country’s government agencies and defence systems.

"The need to protect financial data, health information, intellectual property, and countless forms of other sensitive data is paramount," she said.

In this light, there is a high demand for skilled professionals to counter the rising incidences of cyber-related crimes, paving the way for career opportunities for those pursuing a qualification in cybersecurity.

Talents in cybersecurity urgently needed

Chaithash Rajendaran, 26, currently works as a cyberthreat engineer with a cybersecurity solutions network company, focusing on what he terms as “threat hunting” and malware tactics.

With a Bachelors Honours degree in Information Technology from APU, specialising in information systems, Chaithash feels that this type of career is a career of the future, with high salaries and good prospects of employment.

"Being exposed to the working environment, it was an eye-opener to face the growing number of cyberthreats and how Malaysians are an easy target. Most Malaysians are trusting and honest, releasing confidential information.

"This means new talents in the form of highly trained professionals are badly needed to expose these threats and protect the organisations and the people at risk," he said.

HANNA MOOSA’S XAI TECHNIQUES WIN RPC 2022 GOLD AWARD

Explainable Artificial Intelligence (XAI) techniques provide transparency and explainability required from complex AI models to identify fraud in the healthcare sector in line with the European Union (EU) General Data Protection Regulation (GDPR) and ISO 26262 safety standards.

Billing for services, procedures, and/or supplies that were never rendered, charging for more expensive services than those actually provided, performing unnecessary services for financial gain, misrepresenting non-covered treatments as a medical necessity, and falsifying a patient’s diagnosis to justify tests, surgeries, or other procedures are some of the most commonly reported health care fraud.

As Artificial Intelligence (AI) advances, it may be able to help analyse the massive frauds cases in healthcare and effectively move forward with improved International Organization for Standardization (ISO) guidelines and safety requirements.

Hanna Moosa, Asia Pacific University of Technology & Innovation (APU) Master student in Data Science and Business Analytics, recently received a Gold Award for her final year project titled ‘Application and Evaluation of explainable AI (XAI) Techniques in AI Models Used for Health Insurance Fraud Detection’ in the Research & Innovation Projects (RIP) Series under Master Science, Technology, Engineering, and Mathematics category.

RIPC organised by MNNF Network Malaysia is one of the platforms for highlighting, recognising, and sharing students’ final year projects, theses, or dissertations from various Malaysian universities, as well as to encourage a culture of research and innovation among students.

Hanna stated that she chose this study due to an increase in fraudulent activities and the deployment of complex AI models to detect fraud in the healthcare domain, as well as regulations such as the European Union’s (EU) General Data Protection Regulation (GDPR) and domain-specific standards such as ISO 26262 Safety Standard.

She used a complex Explainable Artificial Intelligence (XAI) model (a model-agnostic method) such as boosting models and deep learning models to detect fraud, and the XAI techniques are used on top of the AI models to provide the necessary explanation and increase the model’s transparency.

However apart from the model global explanation provided by Shapley Additive
With the guidance of my mentor, Dr Nowshath Kadhar Batcha (Senior Lecturer of School of Computing), I was able to finish this project in around seven months, from research through implementation and documentation.

“He has been a tremendous help to me throughout the capstone project, and the poster was made based on the project’s outcome, which is to establish trust between users and providers by utilizing transparent technology while sticking to laws on data availability and interpretability,” she said.

With growing health care fraud cases, Hanna was keen to shake things up with her XAI technique designed to stand out from the masses of AI models, taking users into easy-to-use tools that can be implemented on any predictive model and offer the required explanations.

“I am glad to be able to successfully provide local and global explanations of the AI models using these two methods (SHAP and LIME),” she explained, adding, “I will continue to expand my knowledge in Data Science toolkits, explore XAI concepts, and continue to expand my knowledge in Data and LIME,” he explained, adding, “I will continue to expand my knowledge in Data Science toolkits, explore XAI concepts, and continue to expand my knowledge in Data and LIME.”

Through this strategic collaboration, Dr Nowshath Kadhar Batcha and the Asia-Paciﬁc University of Technology & Innovation (APU) delivered a ‘Global Digital Leadership (CDL)’ education programme covering a broad range of technology specialisations for FELDA’s new-generation human capital development.

This initiative inspired by YB Tan Sri Idris Jusoh, Chairman of FELDA’s aim to increase digital readiness in line with Industrial Revolution 4.0 (IR4.0) by exposing reality and practicality in order to produce excellent human capital ready to embrace the challenges of the digitalization era.

This memorandum was signed by Dato Mohd. Banuri Aris, General Manager of Yayasan FELDA, and Mr Mohd. Helmy, Executive Director of APU, witnessed by YB Tan Sri Idris Jusoh and Datuk Parmjit Singh, Chief Executive Officer of APU.

The public-private strategic collaboration between these two organisations will enable an initial group of 13 outstanding students consisting of grandchildren of settlers and children of FELDA Group employees, including FGV, to pursue academic studies up to the bachelor’s degree level. These 13 students are among 239 applicants who applied for this scholarship since it opened on 16 June 2022.

This programme valued at RM1.5 million in total, includes Academic Studies Program, Intensive English Program (IEP), Need-Based Courses such as Information Technology (IT), System Security, Cloud Engineering, Network Computing, Mobile Technology, Internet of Things (IoT), Digital Transformation, Financial Technology (FinTech), Business Information Systems, Software Engineering, Computer Science, Data Analytics, Digital Forensics, Cyber Security, Intelligent Systems, Multimedia Technology, VR/AR, and Computer Games Development.

This programme offers 18 technology-based courses which includes more than 130 countries on the ‘Global Digital Leadership (GDL)’ education programme including more than 130 countries on the ‘Global Digital Leadership (GDL)’ education programme covering a broad range of technology specialisations for FELDA’s new-generation human capital development.

Through this strategic collaboration, YB Tan Sri Idris Jusoh reinforces FELDA’s commitment to raising educational standards and developing the new generation of FELDA in order to enhance the social mobility of FELDA’s community as a whole.

“With the signing of this MoU, I am confident that the educational aspirations of the new generation of FELDA will be empowered, as will digital mastery which will be the driver of a more advanced future,” he added.

At the same time, Datuk Parmjit Singh thanked FELDA, FGV, and Yayasan FELDA for their confidence and foresight in establishing collaboration in education and digital technology.

“We look forward to the opportunity of transforming their bright future, highly motivated young students selected to join this programme, into highly competent, employable and future-proof graduates in their chosen technology specialization.

“We are confident that through this collaboration, these students will not only be competitive locally but will also develop high levels of global awareness and competitiveness by studying in APU with a highly multicultural learning environment, which includes more than 150 countries on campus,” he concluded.

This CDL programme offers 18 technology-based courses such as Information Technology (IT), System Security, Cloud Engineering, Network Computing, Mobile Technology, Internet of Things (IoT), Digital Transformation, Financial Technology (FinTech), Business Information Systems, Software Engineering, Computer Science, Data Analytics, Digital Forensics, Cyber Security, Intelligent Systems, Multimedia Technology, VR/AR, and Computer Games Development.

He also added, “We are delighted to be able to collaborate with a leading higher education institution like APU to launch a joint programme in the field of technology. This move will serve as inspiration and motivation for the new generation of FELDA to continue to innovate and achieve world class success after they graduate and become the force to achieve FELDA’s aspiration of being the drivers of a more advanced future.”
CMT ASSOCIATION PARTNERS WITH ASIA PACIFIC UNIVERSITY OF TECHNOLOGY & INNOVATION TO ADVANCE THE DISCIPLINE OF TECHNICAL ANALYSIS

CMT Association is proud to announce a new partnership with the Asia Pacific University of Technology & Innovation (APU) through the School of Accounting & Finance and School of Mathematics, Actuarial & Quantitative Studies.

Selection for the CMT Association’s Academic Partner Program signifies a strong commitment to students’ career readiness and applied learning. Institutions in the Academic Partner Program demonstrate academic rigour in financial courses ranging from quantitative methodologies to behavioural finance, as well as portfolio management, trade risk, and other key aspects of technical analysis.

This partnership aims to meet the growing demand for student career preparedness while advocating for the advancement of technical analysis.

Brett Villaume, President of the CMT Association said, “I am thrilled that the CMT Association has partnered with APU, a leading institution of higher learning in this region. As APU’s footprint expands, we will be intermingling with this summer by enabling students to learn the value of technical analysis, we help to ensure future generations of investment management professionals are more successful, rewarding them in their careers as well as benefiting society at large.”

Technical analysis, which is a crucial part of investment and trading decision-making, has evolved over hundreds of years. While modern technical analysis retains its roots in classical observations of market behaviour, it extends beyond pattern recognition to employ groundbreaking quantitative methodologies and rules-based trading algorithms and quantitative methods in investment valuation, he said.

Explaining further on this new partnership, Assoc. Prof. Dr. Rajasegeran said, “CMT Association’s Academic Partner Program will also enable students to learn the best investment analytical skills from industry experts around the world, broadening their employment opportunities in the financial services sector.”

Since the CMT Program emphasizes data visualization, risk management, and intermarket analysis, this new partnership will benefit APU students in analysing market trends. According to Laurensita Clara Himawan, a student from Jakarta Financial University who is enrolled in the APU Bachelor Degree programme in Banking and Finance (Hons) with a specialisation in FinTech, Laurensita will begin her remote internship with the CMT Association (headquartered in London) in early April and believes that this opportunity will improve her learning and career readiness.

“I believe this programme will add value to existing APU programmes because the investment landscape has changed dramatically, and the CMT credential connotes mastery of technical analysis knowledge. “Do not hesitate to participate in this programme because it is quite beneficial. Even for students who are new to investing and trading, they may begin to learn through this programme,” she concluded.

In line with the National Entrepreneurship Policy(NEP), a long-term strategy for Malaysia to become an outstanding entrepreneurial nation, by 2030, APU and the Asia Pacific University of Technology & Innovation (APU) further expanded its Experiential Entrepreneurship Education by collaborating with nine universities in ASEAN and Africa, to build capacity in supporting start-up and spin-out companies, as well as to exchange knowledge and skills among faculty.

The collaboration was formalised through a Memorandum of Agreement signed by Datuk Parmjit Singh, CEO of APU (left) and representatives from the nine universities in a virtual signing ceremony, witnessed by Prof. Ir. Ts. Dr. Vinesh Thiruchelvam, the Chief Innovation & Enterprise Officer of APU. Collaboration in entrepreneurship initiatives plays a crucial role in the upcoming ASEAN Economic Community, as ASEP has a combined GDP of 2.4 trillion dollars while also being rich in natural resources. It would allow ASEAN, to be among the top 10 economic powers in the world.

As the ASEAN market size is so massive, regional entrepreneurship allows the startups to collaborate with firms from other countries making the process easier and smoother which would bring more benefit to both the parties involved and create the opportunity to catalyse creative solutions to longstanding problems, promote research, and energise social change.

Regional entrepreneurship collaborations are also important to create market opportunities for start-ups where governments of Malaysia and Indonesia saw a Memorandum of Understanding on the cooperation in the field of entrepreneurship education signed on 20 November 2021.

Through this cross-border enterprise programme, APU students, as well as students from the above nine universities, could apply their talent and technical expertise to create entrepreneurship while they are still studying in institutions of higher learning.

In his speech, Datuk Parmjit noted that APU’s Enterprise @ APU programme “Better equips student-entrepreneurs by providing them with incubation facilities in an incubation centre, along with mentor sharing and training sessions for start-up companies, and the sharing of curriculum and teaching materials related to entrepreneurship programmes. Students can also participate in the ideation boot camps, entrepreneur competition, and accelerator programmes, elaborated Parmjit.

The collaboration with the nine universities will give all nine universities access to an incubation centre, as well as mentor sharing and training sessions for start-up companies, and the sharing of curriculum and teaching materials related to entrepreneurship programmes. Students can also participate in the ideation boot camps, entrepreneur competition, and accelerator programmes, elaborated Parmjit.

In collaboration with the nine universities in a virtual signing ceremony, witnessed by Prof. Ir. Ts. Dr. Vinesh Thiruchelvam, the Chief Innovation & Enterprise Officer of APU.

CROSS-BORDER UNIVERSITY COLLABORATIONS ENHANCE ENTREPRENEURSHIP SKILLS

His Excellency Dr. Tsohch Visalok, Secretary of State, Ministry of Education, Youth and Sport of Cambodia stated, “The MoA would strengthen the collaboration on entrepreneurial skills of CSUK students and staff with those of APU and other consortium universities, and contribute towards the development of SME in Cambodia.”

Prof. Dr. Ha Thanh Toan, Rector of Can Tho University, Vietnam added, “I believe that we will undertake many collaborative activities in the coming time.”

“The signing of the MoA will provide a platform for strategic international cooperation among the participating institutions. This will contribute to the realisation of our strategic goal of sustainable development through innovation,” said Prof. Thoko Mayekelo, Pro-Vice-Chancellor of the University of Mupumalanga, South Africa.

 Assoc. Prof. Dr. Pham Tiet Khanh, Rector of Tra Vinh University, Vietnam added, “I believe that we will undertake many collaborative activities in the coming time.”

"I hope that we will undertake many collaborative activities for start-up companies and the sharing of incubation programme to the next level, by involving more diverse perspectives. Cross-border research collaborations are critical and strategic in driving greater impacts for the community, particularly in academics, society, and the economy. "Universitas Trisakti is honoured to partner with several universities in ASEAN and Africa, to build capacity in supporting start-up and spin-out companies, as well as to exchange knowledge and skills among faculty.

Assoc. Prof. Dr. Somchanh Bouphaunghany of the National University of Laos said, “This collaboration will provide more opportunities for NUOL staffs and students to enhance entrepreneurship knowledge and skills".

Dr. Nurtami, Vice-Rector for Research of Universitas Indonesia (UI) opined, “Through the establishment of a cross-national and multicultural cross-border collaboration, UI wants to escalate the incubation programme to the next level, by involving more diverse perspectives. Cross-border research collaborations are critical and strategic in driving greater impacts for the community, particularly in academics, society, and the economy.

“Universitas Trisakti is honoured to partner with several universities in ASEAN and Africa, to build capacity in supporting start-up and spin-out companies, as well as to exchange knowledge and skills among faculty.

"Universitas Trisakti is honoured to partner with several universities in ASEAN and Africa, to build capacity in supporting start-up and spin-out companies, as well as to exchange knowledge and skills among faculty."
ACADEMIA-INDUSTRY PARTNERSHIP DRIVING SDG AND ESG GOALS IN SUPPLY CHAIN & LOGISTICS

Asia Pacific University of Technology & Innovation (APU), with its Integrated Sustainability & Urban Creativity Centre (ISUC), has been driving research in areas of United Nations’ Sustainability Development Goals (SDGs), coupled with its practices across the board inculcating ESG.

Putting research into practice, APU has collaborated with CILT Ventures Malaysia Sdn Bhd, a fully subsidiary of Chartered Institute of Logistics and Transport Malaysia (CILTM) aimed at addressing the sustainability and environmental goals and concerns of the logistics and transportation industries.

The Green Supply Chain and Logistic Excellent Centre (GEC) will drive innovation and research in multiple technology areas for this sector. APU’s Post Graduate School, especially PhD students will benefit greatly through research areas related to SDGs and ESG. PhD research will be funded. In addition, student internships in key areas will be offered by members of CILTM to APU’s undergraduates.

CILTM is the professional body representing the logistics and transportation industries in Malaysia and is affiliated with CILT International based in the United Kingdom. International members of CILT affiliations are active in 44 countries worldwide.

APU and CILT Ventures Sdn Bhd formalized their collaboration on 17 March 2022 by Dato Ts. Abd Radzak Abd Malek, Chairman of CILT Ventures Malaysia and Dr. Hari Narayanan, Vice-Chancellor, APU; Dr. Mohammad Nizam Baharom, CEO, CILT Ventures Malaysia, and Datuk Parmjit Singh, CEO of APU. The signing was witnessed by both signatories of CILT Ventures Malaysia and APU with their representatives.

Datuk Ts. Abd Radzak Abd Malek (2nd from left), Chairman of CILT Ventures Malaysia, and Dr. Hari Narayanan (2nd from right), Vice-Chancellor, APU, exchanging the signed documents. Dr. Mohammad Nizam Baharom (left), CEO, CILT Ventures Malaysia; and Datuk Parmjit Singh (right), CEO of APU, witnessed this significant moment.

Dato Ts. Abd Radzak Abd Malek, Chairman of CILT Ventures Malaysia and Dr. Hari Narayanan, Vice-Chancellor, APU, Mohammad Nizam Baharom, CEO, CILT Ventures Malaysia, and Datuk Parmjit Singh, CEO of APU, witnessed this significant moment.

The logistics industry plays a crucial part in helping protect our environment. We need to enlist experienced experts who understand the science behind our environment to be part of our team. Let’s not forget the value of an independent voice and the importance of universities, researchers and professional bodies in providing professional advice,” said Dato Ts. Abd Radzak Abd Malek. Datuk Parmjit Singh highlighted innovation as a driver in this collaboration “Let us constantly challenge ourselves to be at the forefront through innovative ideas and solutions that create value to industry, environment and society.”

A group picture of both signatories of CILT Ventures Malaysia and APU with their representatives to celebrate the formalisation of collaboration on Green Supply Chain & Logistics Excellent Centre.

KEY ENGAGEMENTS UNDER SDG 17 FOR 2022

<table>
<thead>
<tr>
<th>NO</th>
<th>MONTH</th>
<th>TITLE / DESCRIPTION OF EVENT/ACTIVITY</th>
<th>URL OF EVENT REPORT / PUBLICISED ARTICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan-22</td>
<td>‘Pandemic Leadership Award 2021’ For APU Volunteer Leader</td>
<td><a href="https://www.apu.edu.my/media/news/2513">https://www.apu.edu.my/media/news/2513</a></td>
</tr>
<tr>
<td>4</td>
<td>Mar-22</td>
<td>CMT Association Partners With Asia Pacific University Of Technology &amp; Innovation To Advance The Discipline Of Technical Analysis</td>
<td><a href="https://www.apu.edu.my/media/news/2500">https://www.apu.edu.my/media/news/2500</a></td>
</tr>
<tr>
<td>6</td>
<td>Apr-22</td>
<td>Raudhathul Ai Faez Orphans Get Aifidflifi Aid From APU Clubs &amp; Societies</td>
<td><a href="https://www.apu.edu.my/media/news/2573">https://www.apu.edu.my/media/news/2573</a></td>
</tr>
<tr>
<td>7</td>
<td>May-22</td>
<td>Serving The Needy And Underprivileged For Aifidflifi 2022</td>
<td><a href="https://www.apu.edu.my/media/news/2576">https://www.apu.edu.my/media/news/2576</a></td>
</tr>
<tr>
<td>8</td>
<td>May-22</td>
<td>Bronze Medal In The Hanoi SEA Games</td>
<td><a href="https://www.apu.edu.my/media/news/2562">https://www.apu.edu.my/media/news/2562</a></td>
</tr>
<tr>
<td>9</td>
<td>May-22</td>
<td>MRA And APU Sign Landmark MoA To Boost Technological Solutions For Property And Construction Sector</td>
<td><a href="https://www.apu.edu.my/media/news/2542">https://www.apu.edu.my/media/news/2542</a></td>
</tr>
<tr>
<td>11</td>
<td>Jul-22</td>
<td>SJ(Kit) Kinara Students Excited To Learn Computer Science With ViRa Robot</td>
<td><a href="https://www.apu.edu.my/media/news/2616">https://www.apu.edu.my/media/news/2616</a></td>
</tr>
<tr>
<td>12</td>
<td>Jul-22</td>
<td>APU Collabs With The Department Of Statistics Malaysia For Driving Data Studies</td>
<td><a href="https://www.apu.edu.my/media/news/2601">https://www.apu.edu.my/media/news/2601</a></td>
</tr>
<tr>
<td>13</td>
<td>Aug-22</td>
<td>APUBCC Contributing To Malaysia’s Blockchain And Crypto Ecosystem</td>
<td><a href="https://www.apu.edu.my/media/news/2705">https://www.apu.edu.my/media/news/2705</a></td>
</tr>
<tr>
<td>14</td>
<td>Aug-22</td>
<td>Research Grant Award For Prof. Dr Murail And Team</td>
<td><a href="https://www.apu.edu.my/media/news/2687">https://www.apu.edu.my/media/news/2687</a></td>
</tr>
<tr>
<td>16</td>
<td>Aug-22</td>
<td>Power Electronics Research In Denmark For Merdeka Grant Award Recipient</td>
<td><a href="https://www.apu.edu.my/media/news/2667">https://www.apu.edu.my/media/news/2667</a></td>
</tr>
<tr>
<td>18</td>
<td>Oct-22</td>
<td>Fluffy Charity Moves By APU Student-Volunteers</td>
<td><a href="https://www.apu.edu.my/media/news/2726">https://www.apu.edu.my/media/news/2726</a></td>
</tr>
<tr>
<td>22</td>
<td>Nov-22</td>
<td>APU Students Among Asia’s Top 100 Young Talents</td>
<td><a href="https://www.apu.edu.my/media/news/2744">https://www.apu.edu.my/media/news/2744</a></td>
</tr>
<tr>
<td>23</td>
<td>Dec-22</td>
<td>APU &amp; DBN Sign MoU To Forge Development Of 5g Curriculum And Related Digital Services</td>
<td><a href="https://www.apu.edu.my/media/news/2748">https://www.apu.edu.my/media/news/2748</a></td>
</tr>
</tbody>
</table>