

SiTIZEN

Once a SiTizen, Always a SiTizen



Bi-Annual
January 2022



CELEBRATING BRILLIANCE!

RECOGNITION OF EXCELLENCE

2015 - 2021

-
- SIT Welcomes New President •
 - Results of 2020 Joint Autonomous University Graduate Employment Survey •
 - Singapore's First Competency-Based Workplace Learning Pathway •
 - Celebrating the Class of 2021 •





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SITizen Bi-Annual is a publication by the SIT Advancement & Alumni Division.

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SIT Appoints Prof Chua Kee Chaing as its Third President

Leadership at the Singapore Institute of Technology takes effect from 1 January 2022

SIT Graduates Continue to Enjoy Strong Employment Outcomes Amid COVID-19

95.0% of graduates employed six months after graduation

SIT and Industry Partners Launch Singapore's First Competency-Based Workplace Learning Pathway to Upskill Singaporeans

MOUs signed with Ensign InfoSecurity, the Land Transport Authority, SBS Transit, and SMRT Corporation to address industry skills gap and provide an inclusive alternative pathway for in-employment learners

Minister Chan's Immersive Visit at SIT

Minister for Education Chan Chun Sing caught a glimpse of how virtual reality technology can be used to improve learning outcomes, and how food production quality can be improved at SIT's Food Pilot Plant

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Over 2,600 freshmen are welcomed to the SIT First Year Experience with a series of physical and virtual activities

Celebrating the Class of 2021

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DEAR READERS

Celebrating Brilliance!

The Recognition of Excellence (ROE) made a memorable comeback in 2021 as an online event, much to the excitement of the award and scholarship recipients as they shared their shining moments with friends and family. Physical distance did not stop our SITizens and donors from interacting with one another, and the live chat during the streaming session was filled with warm congratulatory messages and heartfelt thank-yous.

There have been other happy celebrations in the last six months, since the SITizen Bi-Annual was launched. SIT welcomed over 2,600 freshmen at Orientation 2021: SIT First Year Experience with a series of physical and virtual orientation activities. A month later in October 2021, the Graduation Ceremony for the Class of 2021 saw more than 2,000 students from 46 degree programmes – among them the inaugural batches of Aircraft Systems Engineering and the Master of Science in Chemical Engineering programmes – receive their degree scrolls.

In other celebratory news, SIT graduates are thriving amid the pandemic. Results of the 2020 Joint Autonomous University Graduate Employment Survey show that they are enjoying a 95% employment rate and \$3,675 in mean gross monthly salary, both higher figures as compared to the previous year. There have also been several firsts for SIT. Forming partnerships with industry leaders, it launched Singapore's first Competency-Based Workplace Learning Pathway, an inclusive pathway for adult learners in the Infocomm Technology and Land Transport Sectors to pursue a degree. Collaborations with cybersecurity and technology firms were also announced, further bringing to life SIT's ambition of building a living lab at its future campus in Punggol.

Most significantly, this new year marks a key milestone for SIT, with Professor Chua Kee Chaing succeeding Professor Tan Thiam Soon as its President from 1 January 2022. Prof Tan continues to be an integral part of SIT's leadership as Institute Professor, supporting the new President in the University's continued efforts in community and donor engagements, as well as mentoring younger leaders. He will also continue to contribute to industry in his roles as the Deputy Chairman of the Building Construction Authority and board member of the Land Transport Authority.

Said Prof Chua, "I am deeply honoured to be given the opportunity to lead SIT into its next phase of growth and I look forward to working with all stakeholders of SIT to further strengthen our mission as Singapore's premier University of Applied Learning."

We hope you will enjoy these stories. Should you have any feedback, please drop us a line at Alumni@SingaporeTech.edu.sg

SIT Advancement & Alumni

SIT Appoints Professor Chua Kee Chaing as its Third President

Leadership transition at the Singapore Institute of Technology takes effect from 1 January 2022



From left: Prof Tan Thiam Soon, Prof Chua Kee Chaing, Prof John Thong.

The Singapore Institute of Technology (SIT) has appointed Professor Chua Kee Chaing as President with effect from 1 January 2022. He previously held the role as SIT's Deputy President (Academic) & Provost and was the President-designate from 1 September to 31 December 2021. Prof Chua, who is SIT's third President, succeeds Professor Tan Thiam Soon who has stepped down as President after nine years in the role.

Prof Tan became SIT's second President in early 2013 and his first

task was to steer SIT to become Singapore's fifth autonomous university, which was achieved in March 2014, and launched SIT's first suite of its own programmes that year. He adopted the applied learning pedagogy and introduced the Integrated Work Study Programme which today, is a signature programme of SIT.

He also led the effort to get approval for the construction of a new campus in Punggol, which is conceptualised as a living lab to support applied learning. Today, SIT students are well-received

by industry and enjoy good employment outcomes.

He continues to be an integral part of SIT's leadership as Institute Professor, supporting the new President in the University's continued efforts in community and donor engagements, as well as mentoring younger leaders. He will also continue to contribute to industry in his roles as the Deputy Chairman of the Building Construction Authority and board member of the Land Transport Authority.

Prof Chua joined SIT in September 2019 and has led the university's development in academic policies and curriculum, applied learning and applied research, faculty development, as well as student administration. Prior to joining SIT, Prof Chua was the Dean of the Faculty of Engineering at the National University of Singapore (NUS).

At SIT, Prof Chua has started various initiatives to deepen SIT's applied learning pedagogy. These include reorganising the academic structure into a matrix of faculty clusters and programmes; harmonising SIT's suite of education programmes to help students achieve mastery of disciplinary knowledge, skills

I express my warmest gratitude to Thiam Soon for his visionary and exceptional leadership as President over the last nine years. I have every confidence that SIT will continue to grow and thrive under the leadership of Kee Chaing, who possesses the strategic vision and expertise to solidify SIT's reputation as Singapore's premier University of Applied Learning.

Mr Ng Yat Chung
Chairman, Board of Trustees, SIT

I am deeply honoured to be given the opportunity to lead SIT into its next phase of growth and I look forward to working with all stakeholders of SIT to further strengthen our mission as Singapore's premier University of Applied Learning.

Prof Chua Kee Chaing,
President, SIT

and agility; as well as weaving interdisciplinary learning into the curriculum to mould highly employable and adaptable graduates. He has also positioned the University to strategically grow its applied research and pioneer a competency-based workplace learning pathway to support upskilling of in-employment learners.

Professor John Thong has assumed the role of Deputy President (Academic) & Provost with effect from 1 January 2022. Prof Thong previously held the role of SIT Vice Provost and he was the Deputy President (Academic) & Provost-designate from 1 September to 31 December 2021. Prof Thong

joined SIT in August 2020 and has worked closely with Prof Chua on academic policies and curriculum. Prior to joining SIT, Prof Thong was the Head of the Department of Electrical and Computer Engineering at NUS.



SIT Graduates Continue to Enjoy Strong Employment Outcomes Amid COVID-19

95.0% of graduates employed six months after graduation

Graduates from the Singapore Institute of Technology (SIT) continue to be in demand, with high overall employment and starting salaries. The 2020 Joint Autonomous University Graduate Employment Survey (JAUGES) findings revealed that 95% of SIT graduates in the labour force

(comprising those who are working or not working but actively looking and available for work) who completed their studies between October 2019 and September 2020 were employed. This is higher than the 90.7% overall employment figure in the previous year.

A total of 1,882 or 86.6% of the university's cohort of 2,172 graduates from SIT and its nine Overseas University (OU) partners across 39 degree programmes participated in SIT's seventh annual GES, which was conducted between 1 March and 14 May 2021.

SIT saw 100% overall employment across several degree programmes, including Information and Communications Technology (Information Security), Game Design, Marine Engineering, Aerospace Systems, as well as the pioneer batch of graduates from three SIT-conferred degree programmes in allied health - Diagnostic Radiography, Occupational Therapy and Radiation Therapy. The inaugural batch of graduates from the joint SIT-University of Glasgow Civil Engineering programme achieved 97.9% overall employment.

SIT GES 2020 Results at a Glance

	2018	2019	2020
No. of Graduates	1,707	1,809	2,172
No. of Programmes	33	36	39
Response Rate	85.2%	83.3%	86.6%
Proportion of Graduates in the Labour Force who are Employed	92.5%	90.7%	95%
Mean Gross Monthly Salary	\$3,437	\$3,598	\$3,675
Median Gross Monthly Salary	\$3,300	\$3,500	\$3,500

Higher Starting Salaries for Graduates

The mean gross monthly salary among fresh graduates employed in full-time permanent employment increased to \$3,675 in 2020, compared to \$3,598 in 2019. The median gross monthly salary among fresh graduates employed in full-time permanent employment remained the same at \$3,500, compared to 2019.

Fresh graduates in the Computing Science programme earned the most among their 2020 graduate peers with a median gross monthly salary of \$5,000, compared to \$4,200 in 2019. This was followed by Information and Communications Technology (Information Security) graduates, who earned a median salary of \$4,300, up from \$4,100 the year before. Graduates with comparatively similar salaries were those from the Computer Science in Real-Time Interactive Simulation, Telematics (Intelligent Transportation Systems Engineering), Systems Engineering (ElectroMechanical Systems) and Sustainable Infrastructure Engineering (Land) programmes.

Professor Chua Kee Chaing, then SIT President-designate, said, "It is encouraging that SIT graduates remain sought after by the industry and enjoy competitive salaries despite current economic conditions. This is because we nurture our graduates to be work-ready through our focus on applied learning and the signature Integrated Work Study Programme (IWSP). IWSP provides them with real work experience, which is much valued by employers and helps the students to hit the ground running upon graduation."

IWSP Gives SIT Graduates a Head Start in Career

As many as 43.6% of employed graduates received job offers from their Integrated Work Study Programme (IWSP) companies before graduation. Of these, 22.5%-points accepted the offers.

The IWSP is an integral feature of SIT's degree programmes where students undertake up to 12 months of relevant work during their course of study. It provides students the opportunity to develop important work skills in their chosen field and prepares them for a seamless transition to employment. Since its inception in 2014, the IWSP has expanded to cover 22 SIT and joint degree programmes, with over 1,200 students out in the industry for their work attachments in Academic Year 2020.

Other than the IWSP, SIT supports graduating students through its Centre for Career Readiness, which organises Career Success Workshops, Recruitment Talks, Career Fairs and Career Coaching Sessions. Sharing sessions by alumni and industry partners also help to raise awareness of the current challenges in the workplace, the impact of COVID-19 and the importance of being open-minded in exploring career opportunities in adjacent industries. All SIT students may also apply to join the Advancement & Alumni Division's SIT Alumni Mentoring Programme, where they will be paired with alumni mentors who will share their professional knowledge and insights on work-study balance. To support fresh graduates entering the workforce, SIT offers four free Continuing Education and Training (CET) modules to the Class of 2020. Alumni can leverage the \$2,000 worth of SITizens Learning Credits to apply for eligible CET courses in SIT.

SIT also taps on its network of industry partners to curate suitable traineeship opportunities for graduates, such as the SGUnited Traineeships Programme (SGUT). With a duration of up to a year, these traineeships equip young Singaporeans with valuable industry experience and allow them to gain a firmer foothold in the job market when the economy recovers.

CLASS OF 2020



MR JASPER TAN YINGJUN

Bachelor of Science (Honours) in Occupational Therapy, SIT Occupational Therapist, Institute of Mental Health (IMH)

"It was the Integrated Work Study Programme (IWSP) at the Child and Adolescent Inpatient Ward at IMH that ignited my interest in working with paediatric mental health patients. I enjoy my meaningful work as I get to help patients progress in their mental health journey and integrate back into the community."



MS SITI NURULJANNAH BINTE SALLEH ISKANDAR

Bachelor of Engineering in Civil Engineering, SIT Engineer, Land Transport Authority

"I was able to apply lessons learnt from my transportation engineering module to evaluate traffic volume, ensuring proposed designs are practical and have minimal impact to traffic. During the course of my study at SIT, I've deepened my theoretical knowledge through applied learning opportunities."



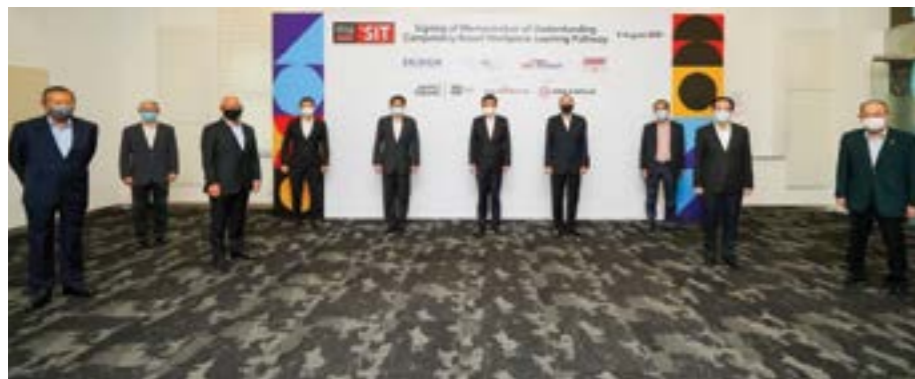
MR OU WAI MUN GABRIEL

Bachelor of Science (Honours) in Physiotherapy, SIT Physiotherapist, Sengkang General Hospital

"The rigorous curriculum at SIT, comprising lectures, tutorials and practical sessions, has equipped me with the relevant knowledge and skills required for the job. I also regularly attended talks by leading international experts in the physiotherapy field who were invited to SIT."

SIT and Industry Partners Launch Singapore's First Competency-Based Workplace Learning Pathway to Upskill Singaporeans

MOUs signed with Ensign InfoSecurity, the Land Transport Authority, SBS Transit and SMRT Corporation to address industry skills gaps and provide an inclusive alternative pathway - for in-employment learners in infocomm technology as well as land transport sectors to upskill and pursue a degree



At the MOU signing ceremony held on 4 August 2021, with representatives from Ensign InfoSecurity, SBS Transit, SMRT, Land Transport Authority, SkillsFuture Singapore, Singapore Railway Academy, SIT Senior Management and Board of Trustees as well as Mr Chan Chun Sing, Minister for Education.

As part of the efforts to forge greater resilience and upskill manpower for Singapore's key sectors, the Singapore Institute of Technology (SIT) has inked two separate Memoranda of Understanding (MOU) with leading industry partners Ensign InfoSecurity Pte. Ltd., the Land Transport Authority (LTA), SBS Transit Ltd and SMRT Corporation Ltd to provide more workplace learning opportunities. The signing ceremonies were graced by Minister for Education, Mr Chan Chun Sing on 4 August 2021 at SIT.

The collaborations will see the university piloting Singapore's first Competency-Based Workplace Learning Pathway that will provide adult learners, regardless of their starting qualifications, a means to enhance their skills and pursue a degree while working - the first-of-its-kind in Singapore.

As part of the MOUs, SIT will collaborate with these industry partners to upskill their workforce to meet evolving industry needs and achieve greater alignment between academic achievement and work performance. This comes as Singapore's key sectors, including cybersecurity and transportation, are expected to grow significantly, and critical to that development is a skilled and resilient workforce that will help power sustained growth in the post-pandemic economy.

The new pathway, designed in collaboration with industry partners, will adopt a different modality in delivering two existing SIT degree programmes in cybersecurity and land transportation. Under this new pathway, adult learners will be able to acquire competencies and get recognition of skills at the workplace. They will also

be assessed based on their displayed competencies.

"Through our engagements with industry, we see the increasing importance of workplace learning to drive lifelong learning in our workforce and enable our companies to transform and progress," said Prof Chua Kee Chaing, then Deputy President (Academic) & Provost, SIT. "If we can work with companies to curate workplace learning to allow in-employment learners to upgrade and gain relevant higher certifications that are useful to and hence recognised by the companies, we create win-win solutions for both the learners and the companies. That is why SIT is committed to driving Singapore's first Competency-Based Workplace Learning Pathway."

The MOU signed between SIT, LTA, SBS Transit and SMRT Corporation will also see the development of a new Postgraduate Certificate in Urban Railway Technology in addition to the competency-based degree pathway in land transportation.

SIT's Competency-Based Workplace Learning Pathway

The new Competency-Based Workplace Learning Pathway will adopt a collaborative approach with industry partners to make

workplace learning more immersive and rewarding for participants, through the following key features:

- **Recognition of Prior Learning:** This pathway will recognise adult learners' work experience and prior competencies using competency-based assessment methods, and award credits towards fulfilment of the degree programme's requirement.
- **Learner-Centric:** Most of the learning outcomes required for the degree programme will be achieved through curated projects which learners carry out at their place of work. Learners will have access to online lectures for the respective modules within the degree programme, and receive facilitated coaching and instruction from SIT faculty through online platforms. This approach will provide learners with greater flexibility and ownership over their learning journey and pace, minimising disruptions in their work and personal lives.
- **Collaborative Engagement with Industry Partners:** The new pathway has been developed in close consultation with industry partners. This collaborative process ensures that both the industry's training needs as well as adult learners' upgrading aspirations are met.

SIT has piloted the new Competency-Based Workplace Learning Pathway in the following degree programmes from September 2021:

- Bachelor of Engineering in Information and Communications Technology (Information Security), in collaboration with Ensign InfoSecurity Pte. Ltd.;
- Bachelor of Engineering and Master of Engineering Technology in Sustainable Infrastructure Engineering (Land), in collaboration with LTA, SBS Transit Ltd and SMRT Corporation Ltd.

Seizing the Opportunity to Upskill



Mr Ahmad Syahir, one of 26 workplace learners embarking on SIT's pilot Competency-Based Workplace Learning Pathway, will be the first in his family to obtain an undergraduate degree

Senior Assistant Engineer Mr Ahmad Syahir's biggest regret was not doing well enough in his studies to pursue higher education. Thanks to a new initiative between SIT and key industry partners, the 30-year-old will now have the opportunity to realise his dream through the Competency-Based Workplace Learning Pathway (CBWLP) in Sustainable Infrastructure Engineering (SIE) that was rolled out in September 2021. He is one of the 11 workplace learners from SBS Transit and SMRT Corporation looking to deepen their skill sets in rail engineering.

Mr Syahir, who has been with SBS Transit for eight years, specialises in facilities management and he hopes to attain broader knowledge and skills in other areas of the rail industry such as signalling, communications and rolling stock.

"When I found out about this learning opportunity, I immediately seized it," said Mr Syahir. His family, especially his father and his wife, is supportive of him enrolling into the pathway. "If everything goes smoothly, I would be the first in my family to obtain a degree!" he quipped with delight.

Depending on his assessed competencies, Mr Syahir may take between two-and-a-half and four years to obtain his degree.

"I've just turned 30 and don't want to waste any more time. If I do not start now, I'm not sure when I would have the opportunity to achieve a university degree. With this pathway, I hope to be able to further expand my knowledge and hone my skills, so that I can continue to stay relevant in the fast-changing rail industry," said Mr Syahir.

In addition to the CBWLP in SIE (Land), SIT also launched the pathway for the Infocomm Technology (Information Security) degree programme, teaming up with leading cyber security firm Ensign InfoSecurity.

The firm aims to build a core group of Singaporean cyber security professionals or 'cyber defenders' in the coming years, and has committed to support the training of their employees. 15 workplace learners from Ensign InfoSecurity have commenced their journey with SIT in AY2021.



Mr Ahmad Syahir, Senior Assistant Engineer, SBS Transit conducts regular checks of the Water-Cooled Chillers at MRT stations, to ensure the desired temperature level at the stations is maintained.

Minister Chan's Immersive Experience at SIT

At a visit to SIT, Minister Chan Chun Sing and a delegation from the Ministry of Education caught a glimpse of how immersive virtual reality technology can be used to improve learning outcomes, and how food production quality can be improved at SIT's Food Pilot Plant

On 27 August 2021, the Singapore Institute of Technology (SIT) welcomed Mr Chan Chun Sing, Minister for Education and Minister-in-charge of the Public Service, and Dr Mohamad Maliki Bin Osman, Second Minister, Ministry of Education (MOE) and Ministry of Foreign Affairs (MFA) to SIT@Dover.

The afternoon's programme began in the Boardroom with a presentation and discussion on the key initiatives, strategic focus areas and future plans for SIT.

Thereafter, the delegation was brought on a tour of the campus by SITizen Ambassadors.



Assoc Prof Jeannie Lee (left), Deputy Director, Research Centre for Immersification and Programme Leader, explaining to the delegation how immersive technologies can be applied to provide students hands-on practice on pharmaceutical equipment that may be costly and difficult to access.

Gamification in Virtual Reality to Improve Chemical Engineering Learning Outcomes

The Research Centre for Immersification was the focus of the project showcase at Academic Plaza. Both Minister Chan and Second Minister Maliki were taken through an exciting immersive project led by Assoc Prof Jeannie Lee, Deputy Director, Research Centre for Immersification, which simulates a real-world industrial bioreactor in virtual reality (VR). A bioreactor is an apparatus for growing organisms (such as yeast, bacteria, or animal cells) under controlled conditions. It is used in industrial processes to produce pharmaceuticals, vaccines, or antibodies.

"By leveraging this immersive training environment, students

can now hone their skills in pharmaceutical engineering processes by practising in a safe and contextualised environment while mitigating safety issues, high costs and otherwise limited access to such equipment for hands-on training opportunities," shared Assoc Prof Lee.

It is hypothesised that by setting up an authentic context and environment using VR, students will still achieve the learning outcomes of performing operations in industry standard bioreactor setups and understanding cellular processes. The idea is that gamification will help integrate a user's theoretical and practical understanding of the processes better.

Virtual Lab-based Evaluation of Mobility Environment to Improve First/Last Mile Connections

Another exciting project that was featured was one which investigates the use of VR and AI to create tools to improve the evaluation of commuter experiences in their first/last mile journeys.

Led by Assoc Prof Tan Chek Tien, Centre Director, Research Centre for Immersification, the showcase focused on a VR Commuting Simulator that can gather live data whilst commuters perform commuting decisions in a HDB estate virtual twin.

"The idea of using immersive technology and AI to collect the data was mooted because traditional methods, such as on-site interviews and observations are often laborious and costly, with the data prone to confounding factors when commuter journeys are disrupted," said Assoc Prof Tan. "This project informs the development of VR and mobile app-based tools that can be used to gather in-the-moment data in environments that are more reflective of real-world commuting."

Food Pilot Plant

The MOE delegation was also introduced to the SIT Food Pilot Plant, which houses pilot-scale food processing equipment used to teach food engineering concepts and prototyping. Ms Poh Mei Chi, a Year 3 student from the SIT-Massey Food Technology programme, was working on as part of her Integrated Work Study Programme (IWSP). By applying Lean thinking and A3 problem-solving approach during her IWSP, Ms Poh investigated the root causes of



Assoc Prof Tan Chek Tien (right), Centre Director, Research Centre for Immersification, walking Second Minister Mohamad Maliki Bin Osman through using VR and AI technologies to better evaluate commuter experiences.

rejected products at the company and implemented changes in processing equipment to reduce product rejection rate.

Following Ms Poh's presentation, the MOE delegation was given an introduction to the Food Pilot Plant facility by Assoc Prof Wang Mei Yin, Programme Leader and Ms Lee Yen Yen, Senior Professional Officer. They gave a snapshot of how the Food Pilot Plant is utilised as an integral laboratory for the

SIT-Massey Food Technology programme. "The equipment is used by our students for food product prototyping and scaling up in product development modules," Assoc Prof Wang explained.

After the campus tour, the afternoon's visit concluded with a closed-door dialogue session comprising both ministers, MOE staff and about 40 SITizen Ambassadors and student leaders.



Ms Poh Mei Chi (left), Year 3 Food Technology student, presented her improvement project for her IWSP company.



The SIT First Year Experience online interface that featured various first year experiences was a hit among students.

SIT First Year Experience: Orientation 2021

Over 2,600 freshmen are welcomed to the SIT First Year Experience with a series of physical and virtual activities - SIT Helix, Day Zero, Club Fair and Virtual Platform

Despite this being the second year where a large part of the SIT orientation had to be held online, SIT made sure that freshmen had a holistic experience during their orientation.

SIT Helix - Connecting with SIT-DNA and Culture

An evolution of the conventional orientation camp into an induction programme, Helix is a platform for freshmen to connect with the SIT

community, DNA and culture, meet fellow freshmen from other degree programmes, and learn more about interdisciplinary learning, while retaining the fun elements of an orientation camp.

What does interdisciplinary learning mean to us?

- An approach that integrates different aspects of more than one academic discipline
- Exposures students to explore different perspectives and views.
- Gives students a "more well-rounded and coherent" understanding of the material they're studying.
- Introduced to modules outside the student's major disciplines to give them fundamental understanding of adjacent disciplines which they could add to when required.
- Solving complex issues using diverse backgrounds to come up with solutions.
- Widen worldview and perspectives on various disciplines for out-of-the-box solutions to complex issues

The freshmen shared about what interdisciplinary learning means to them.

Close to 1,000 freshmen and 73 student organisers and facilitators participated in this two-day virtual event over three sessions. Prof John Thong, then Deputy President (Academic) and Provost-designate, gave a warm welcome to the freshmen, while Assoc Prof Foo Yong Lim, Assistant Provost (Applied Learning), shared about interdisciplinary learning and the university's framework for transferable skills learning.

Day Zero - Interacting with the SIT Community

A traditional element of the SIT orientation, Day Zero is the perfect platform for freshmen to interact with academic staff, seniors and course mates prior to the start of the programme.

Conducted over five days (from 30 August to 3 September 2021) across six campuses, the freshmen took the opportunity to understand the expectations for their degree programmes, and gained useful studying and time management tips from their seniors. Day Zero was attended by 2,667 freshmen, 617 student organisers and facilitators, as well as 16 academic staff.

The highlight of the event was the sharing by industry partners such as Keppel Offshore & Marine Ltd, Ministry of Trade and Industry, Sembcorp Marine Ltd, and Singapore Society of Radiographers.



▲ Ms Denise Choong, President, 63rd Executive Council, Singapore Society of Radiographers (SSR), spoke on how the SSR promoted education through continuing professional development to improve the professional practice, as well as the safety and quality of care provided for patients.

Club Fair & Virtual Platform - Promoting an Active University Life

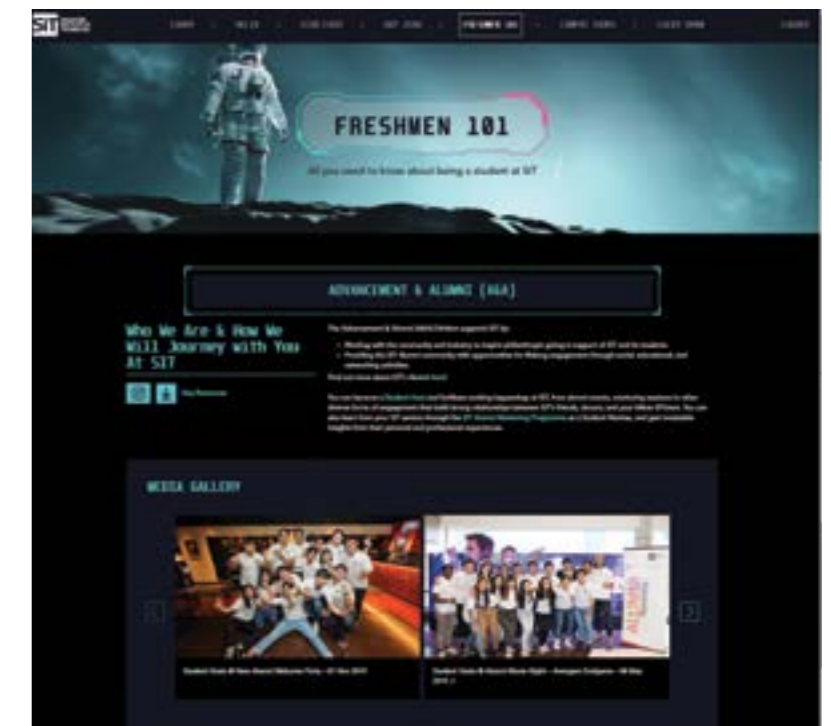
Club Fair 2021 was a virtual event to allow freshmen to meet their peers and seniors in an interactive environment. There were also daily livestream sessions on YouTube to give freshmen a glimpse into the various student activities and development programmes.

Motivated to provide freshmen with an 'out of this world' experience, the virtual platform undertook an 'Adventure into Space and Beyond' theme, featuring useful resources from 20 participating divisions, live chats with 88 clubs, and virtual

campus tours featuring all six SIT campuses.

"Club Fair 2021 was my first major event planning experience at SIT," said Mr Ow Shihao, Secretary, Club Fair 2021 EXCO. "I had to step outside my comfort zone, from transporting the whole SIT@Dover campus into the virtual world, to filming the MUNCHTIME@SIT and creating content for the SIT Campus Activity Vlog. I'm glad to have been given this wonderful opportunity and it was a pleasure working with the team on this event!"

The Club Fair and Virtual Platform garnered 4,000 visits and 53,000 views.



▲ Mr Chris Ong, CEO, Keppel Offshore & Marine Ltd, talked about his experience in the marine industry.

▲ A Virtual Platform was created to allow new SITizens to find out more about the various divisions including the SIT Advancement & Alumni Division, to enhance their student life with support from various divisions at SIT.

Celebrating the Class of 2021

Over 2,000 graduates from 46 undergraduate and postgraduate programmes - including the pioneer cohort of Aircraft Systems Engineering - receive their degree scrolls



More than 2,000 graduates from 46 undergraduate and postgraduate programmes received their degree scrolls, including 878 graduates from SIT-conferred programmes, 665 graduates from SIT-overseas university (OU) joint programmes, and 509 graduates from degrees conferred by SIT OU partners.

The Singapore Institute of Technology (SIT) celebrated the achievements of the Class of 2021 with its Graduation Ceremony from 19 to 22 October 2021. Mr Chan Chun Sing, Minister for Education graced the main session held at The Theatre at Mediacorp.

Singapore's First Locally-Trained Aircraft Systems Engineers

The occasion marked the graduation of the inaugural batch of 46 students from the Aircraft Systems Engineering (ASE) programme at SIT. Graduates from the first-of-its-kind three-year Bachelor degree programme by an Autonomous University in Singapore have undergone an interdisciplinary curriculum that grooms them for the aerospace and aircraft Maintenance, Repair

and Overhaul (MRO) industries. The curriculum is developed in collaboration with SIA Engineering Company Limited (SIAEC), which provides extensive MRO services to international airlines and aerospace equipment manufacturers worldwide.

As part of SIT's signature Integrated Work Study Programme (IWSP), ASE students are required to undergo an eight-month work attachment at SIAEC, where they gain first-hand industry experience in aircraft maintenance. In addition to the SIT-conferred degree upon completion of their studies, the programme also enables ASE graduates to qualify for a Certificate of Recognition (CoR) by SIAEC, which certifies the successful completion of a SAR-147 Approved Basic Course, one of the key pre-requisites for the award of an Aircraft Maintenance License.

SIAEC plans to take in 20 ASE graduates for its Trainee Aircraft Engineer Programme. Career Coaches from SIT's Centre for Career Readiness (CCR) have also been reaching out to graduates to share employment opportunities, offer resume reviews and conduct mock interviews.

"SIAEC is pleased to see the fruition of the partnership with SIT in the Aircraft Systems Engineering degree programme. Such industry-university collaboration benefits students, employers and industry as it shortens the total time taken to build up relevant practical skills which are imparted during the industry attachment programme. Congratulations to the students!" said Mr Chua Hock Hai, Senior Vice President (Human Resources), SIAEC.



Mr Chan Chun Sing, Minister for Education, graced the event as Guest-of-Honour.



Prof Tan Thiam Soon, then President, SIT, giving a speech at Session 1 of the Graduation Ceremony.

Pioneer Batch of Graduates with Deep Technical Expertise in Chemical Engineering

The university also graduated its first cohort of students from the Master of Science in Chemical Engineering programme. The programme equips mid-career professionals with strong fundamentals and robust training in modern chemical engineering technologies.

SIT Graduates Remain Employable Amid Challenging Economic Climate

Based on SIT's preliminary employment survey, 72% of the respondents from the university's Class of 2021 have secured employment since the completion of their studies. Graduates from the Information and Communications Technology (Software Engineering) and Radiation Therapy programmes have attained 100% overall employment.

Prof Tan Thiam Soon, then President, SIT, credits the encouraging showing of SIT graduates during the current economic conditions to SIT's applied learning and industry-focused curriculum. This includes the IWSP, which is mandatory for all students of SIT-conferred and SIT-OU joint programmes.

"Our students go through a rigorous curriculum that provides them with both a solid academic foundation and industry experience. In particular, the IWSP provides students the opportunity to put theory into practice and learn from experienced professionals, over a duration of between eight to 12 months. This gives our students a competitive edge when they enter the workforce. We also continue to ensure the high relevance of our programmes, thanks to the strong collaboration with our industry partners," said Prof Tan.



Proud graduates celebrate a new milestone with friends and family!

Heartfelt Appreciation...

from the Class of



A big thank you to SIT's donors, whose generous and nurturing support have transformed lives



To the Management of Geo Coal International Pte Ltd,
My family and I would like to thank you for the Geo Energy Bursary provided to me throughout my university education journey. Thanks to your support, I have obtained an undergraduate degree and done my family proud.

We wish to say a very big thank you to you and I hope my achievement at SIT has done you proud.

Warmest Regards,

Alfred Pang Wei Yang
Bachelor of Engineering (Honours) in Information and Communications Technology (Information Security)

I would like to thank The Estate of Lim Doa Hin for the Lim Doa Hin Study Grant which has supported me so generously throughout my 3 years in SIT.

Being a student at SIT studying Food Technology was one of the best life experiences I ever had. University is tough but the support and encouragement from professors and course mates made all the difference. With them I have forged connections that will always be a part of my life. Thanks to the support, I am able to study what I am passionate about.

Upon the completion of my studies, I was immediately offered a full-time job at an engineering company as a Business Innovation Executive, and I get to utilise the knowledge and skills acquired from my degree programme on this job!

Sincerely,
Wee Yue Mei
Bachelor of Food Technology (Honours)



Dear Mr Raymond Goh and Mrs Goh Kwai Fong,

I feel both honoured and thankful to have received the Kwai Fong & Raymond Goh Study Grant for two years. Firstly, I would like to share some good news. I have graduated and attained honours with distinction. In addition, my Capstone Project (Final Year Project) will be published in a journal. All this is only possible with your support, which relieved my financial burden and allowed me to focus on my studies. My life journey has just begun and I will continue to work hard and inspire many others.

Thank You and Best Wishes,
Chee Zhen Qi
Bachelor of Engineering (Honours) in Mechanical Design & Manufacturing Engineering

I wish to thank the Singapore Chinese Chamber of Commerce Foundation (SCCCF) for supporting me through university. Uni has not been easy, but thanks to the generosity of the SCCC, I was enabled to excel and to realise my fullest potential, without having to worry about the financial impact of tertiary education on my family.



I am grateful for the SCCC Scholarship, and hope to one day pay forward the generosity shown to me by giving back to society in one form or another.

Teng Wei Chiang Jerome
Bachelor of Engineering (Honours) in Sustainable Infrastructure Engineering (Building Services)

Thank you, Loyang Tua Pek Kong, for supporting me throughout my studies in SIT. The Loyang Tua Pek Kong Bursary has helped me to cope with financial difficulties, easing my learning journey and health. I will continue to do my best for myself, family and the community.

Nur Nazurah Binte Mohamed Ishak
Bachelor of Accountancy (Honours)



My most grateful thanks to Net-Source Group Pte Ltd for supporting me with the Net-Source Group Study Grant during my final few trimesters in SIT. This allowed me to focus better in school without worrying about tuition fees and other expenses from day to day. My family and I will always be grateful and blessed as I have managed to graduate. Thanks for the generous support!

Thank you.

Yours Truly,
Muhammad Hadee S/O Ibrahim Piperdy
Bachelor of Engineering (Honours) in Information and Communications Technology (Software Engineering)



Thank you Singapore Leong Khay Huay Kuan, for enabling me to finish my studies, even as my family was going through the roughest times with the loss of my dad. Words cannot express how grateful I am, and I can only hope to be able to reciprocate the kindness to others and the community, while I seek my own path as a fresh graduate.



Thank you for the Singapore Leong Khay Huay Kuan Bursary!

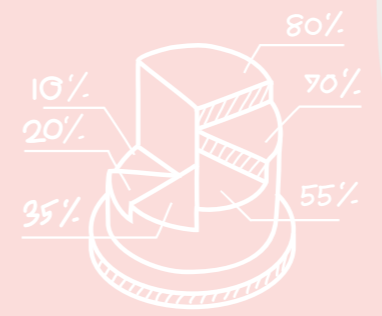
Lim Jing Hao
Bachelor of Engineering (Honours) in Information and Communications Technology (Software Engineering)

Dear Mr Kek Wei Chuan,

With the support from Hiap Chuan Hardware Pte Ltd, I was able to focus on schoolwork and studies. The steel.sg Study Grant has also allowed me to spend a lot more time with my mum over the last few years. Therefore, on behalf of my late mum and family, I would like to say a big "Thank You" for your support. To my donor, your generosity has truly touched and inspired me to pay it forward and, most importantly, to give back to the community. I hope, in the future, that I will be able to help students just as you have helped me. Lastly, I would really love to get a chance to sit down with you and have a meal or coffee to thank you personally as well.

Sincerely,

Toh Yi Sin
Bachelor of Engineering (Honours) in Civil Engineering





Dear TAK Products and Services Pte Ltd,

I am deeply humbled and would like to sincerely express my appreciation for being a recipient of the TAK Bursary for 2 consecutive years. Not only did it help in lightening the load to complete my tertiary studies, most importantly it inspired and motivated me to do better in my educational endeavours. Graduating would not have been possible without your kind generosity and unwavering support through this bursary, for myself and other students like me.

As I complete my education in SIT and embark on my journey towards a career as a Marine Engineer, I would like to thank my donor. Your continued support will inspire and motivate other students to complete the most important phase of their education journey.

Thank you again!

Warmest regards,

Khairul Khairi
Bachelor of Engineering (Honours)
in Marine Engineering



I would like to express my deepest appreciation to The Tan Chin Tuan Foundation. Without the Tan Sri (Dr) Tan Chin Tuan Scholarship, I would not be here wearing this graduation gown. Thank you for the constant support and assistance rendered to us students! We will never forget it! As I graduate from SIT and move on into the next phase of life, I'll be sure to carry the values of the Foundation with me and pass the kindness forward.

Best Regards,
Low Wei Jie
Bachelor of Hospitality Business (Honours)



To The Ngee Ann Kongsi,

Thank you so much for supporting me throughout my four years of education in SIT with The Ngee Ann Kongsi Scholarship. I have graduated with a Bachelor of Science with Honours in Diagnostic Radiography and have attained the Book Prize for Honours Thesis from Singapore Society of Radiographers. I am now a radiographer working in KK Women's and Children's Hospital. This would not have been achievable without your support.

Thanks to The Ngee Ann Kongsi, students like me can pursue our education without any financial worries and are joining the workforce to give back to the society. Thank you for inspiring us.

Saifoon Faheema
Bachelor of Science (Honours)
in Diagnostic Radiography



I would like to express my greatest appreciation to Tiong Seng Contractors (Private) Ltd for awarding me the Tiong Seng Bursary in the final year of my studies.

The bursary has helped me to focus on my studies and to achieve good results. It has helped my family as well in this tough time during the pandemic, as my dad had been retrenched early this year.

I am able to attend my Convocation Graduation Ceremony, and this would not have been possible without the support from Tiong Seng Contractors (Private) Ltd. Thank you for your support and I wish your company every success in the future.

Best Regards,

Muhammad Zul Azuan Bin Zainudin
Bachelor of Engineering (Honours) in Marine Engineering



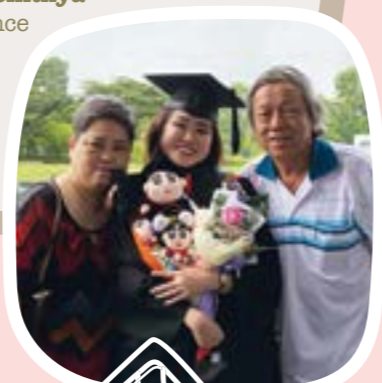
I made it!!! I have graduated!!! A big appreciation for The Ngee Ann Kongsi Scholarship. Thank you for strengthening my resolve to keep strong during my SIT journey. I am especially grateful for the scholarship during the difficult Covid-19 situation. With the scholarship to take care of the finances, I could focus on my arduous internship programme and projects over the past trimesters... and trained hard with my twinnie to do SIT proud with the Tchoukball Team!

With deepest gratitude...

Angeline Goh Tse Ning
Bachelor of Food Technology (Honours)

Thank you, Ngee Ann Kongsi, for playing such a significant role in my education journey; allowing me to pursue my dream and have a fulfilling university life. It has been my honour and pride to be a Ngee Ann Kongsi scholar in the last 4 years. The Ngee Ann Kongsi Scholarship has not only provided financial support, but also opportunities to attend social and cultural events and to meet new people and understand more about the Teochew history and traditions. I am currently working as an Occupational Therapist serving others in the community, and it would not be possible without your generosity and support. Thank you so much!

Goh Sock Ting, Cinthya
Bachelor of Science (Honours) in Occupational Therapy



Thank you Ngee Ann Kongsi, for giving me a chance to change my life around. I started off as a mediocre student who had many worries about helping out in the family, and now I have graduated with a Bachelor's degree and am in a much better position to give back to my family, as well as continue on with in life without debt. The Ngee Ann Kongsi Scholarship has allowed me to focus entirely on my

studies, giving me the opportunity to realise my true potential and find my career along the way. It is not an overstatement to say that my life has been completely changed, and it is all thanks to Ngee Ann Kongsi!

Tan Yee Shuan
Bachelor of Engineering in Systems Engineering (ElectroMechanical Systems)



Dear Goh Foundation,

I am Clarissa Lim, a recipient of Goh Foundation allowance in 2018 and Goh Foundation Bursary in 2019 and 2020 respectively.

I have officially graduated from Singapore Institute of Technology with a Bachelor of Hospitality Business with Honours. This milestone would not have been possible without the generosity of Goh Foundation and I would like to convey my sincere gratitude for the continue support in my journey for higher education. Thank you so much! I shall forever remain indebted.

Yours Sincerely,

Clarissa Lim Li Xian
Bachelor of Hospitality Business (Honours)

Part of the research includes lab trials such as staining of tokens with Active Pharmaceutical Ingredients, and testing for various solutions.



Improved Cleaning by Understanding the Science of Stains

Researchers at SIT get on the case to improve efficiency of cleaning in the pharma sector

You would probably swipe your finger over surfaces to ensure you have removed all traces of grease and grime after a big cook-out in the kitchen. If your fingers feel oily, it means another wipe down is in order. Although it's not the most scientific method, it works.

Pharmaceutical companies also often perform the finger swipe test as one of the last steps of cleaning as a rough gauge of how clean their manufacturing plants are, before producing the next batch of drugs. However, surface science expert Assoc Prof Reginald Thio said that the cleaning process is "kind of random and rudimentary" and the finger swipe test can also be subjective.

Lengthy decontamination times of as long as two weeks is a perennial pain point for the industry. To crack this problem, Assoc Prof Thio is working together with the Agency for Science, Technology and Research's (A*STAR) Institute of Chemical and Engineering Sciences (ICES).

Working with four pharmaceutical companies, he and his colleagues at the Singapore Institute of Technology (SIT) are trying to understand the particles created from the pharmaceutical manufacturing process, how they adhere to surfaces, and the best way to remove them.

They researched how certain stains and deposits may be removed better with specific solvents, instead of a one-size-fits-all approach. Pharmaceutical companies would send the SIT team samples of the drugs they produce and the team will then reverse engineer relevant parts of the manufacturing process in A*STAR's laboratory to replicate the stains to study them. After that, they would try various methods to figure out the most effective and efficient way for stain removal.

Through their research trials, the joint ICES-SIT team developed a cleaning methodology using a new solvent to replace acetonitrile, helping pharmaceutical company

GSK save costs and cut turnaround time.

While pharmaceutical companies will always want the shortest turnaround time possible so that the plants can start working on the next batch of drugs, Assoc Prof Thio aims to create an industry standard that will inform pharmaceutical operators on how best to clean for which drug.

"It can be a flow chart, a standard operating protocol, or a table, where you can easily see that for a particular drug, I will need to use a specific solvent for a determined amount of time. It would be useful to have some sort of a catalogue that charts the science behind various methods, and how clean the plant will be based on those recorded methods," he said.

"What we are doing now is the first step towards creating this holy grail book for the industry," said Assoc Prof Thio.

Greening Industries for Sustainability

SIT showcases two sustainable engineering initiatives that aim to reduce carbon footprint

The Singapore Institute of Technology (SIT) examines innovative ways in greening industries for a more sustainable future through the following two initiatives – utilising solar energy to power rooftop hydroponic farms, and helping companies discover and implement energy efficiency improvement measures.



Setting up the hydroponic farm at SIT@Dover campus.

Harnessing Solar Energy for Rooftop Hydroponic Farms

With Singapore moving towards a more sustainable future, it has prioritised greater self-sufficiency in local food production and adoption of renewable energy resources. An SIT project is targeting both areas in the form of rooftop hydroponic farms that harvest electricity from the sun and use probiotics to better grow leafy greens and herbs.

"The project aims to address competing needs within limited land in land scarce Singapore," said principal investigator Assoc Prof Steve Kardinal Jusuf, Engineering cluster, SIT. "If both renewable energy and agricultural needs can

co-exist together, Singapore won't have to sacrifice one for the other."

The three-year project, which started in December 2020, is funded by a grant from Temasek Foundation. Singapore-based agritech company Archisen is lending its expertise to the project. It provides seedlings and seed germination, and also advises on the crops and plant growth.

(SMEs), which typically lack the capabilities and resources to identify and implement energy efficiency improvement measures. SMEs receive a diagnosis of their energy performance and recommendation on areas of improvement, and their staff are trained in energy assessment skills for continual improvement.

"Energy efficiency is a least-cost measure in Singapore's vision of a more sustainable future," said Prof Lock Kai Sang (Engineering cluster), who helms the EETC.



The team at Energy Efficiency Technology Centre (EETC) aims to promote and develop energy efficiency capability as well as adoption of new technologies in the local energy ecosystem for industrial sectors.

Training SMEs to be More Energy Efficient

Launched in 2019, the Energy Efficiency Technology Centre (EETC) at SIT has been helping companies discover and implement energy efficiency improvement measures, as well as build up local industrial energy efficiency capabilities. As a collaboration between SIT and the National Environment Agency (NEA), it also trains a pipeline of SIT engineering undergraduates and upskills existing energy efficiency practitioners in industrial energy efficiency.

The centre has made energy assessments more accessible for small and medium enterprises

"Some energy efficiency measures can be implemented through changes in human behaviour and business operation, while others can be achieved by using established energy efficiency technologies."

The EETC also launched two upskilling programmes for existing professionals in 2021 – the Electrical Installations Audit and Analysis Programme in May and the Energy Efficiency Upskilling Programme in January. Another six more programmes are in the pipeline. Through these programmes, aspiring engineers and energy managers can train towards becoming certified Energy Efficiency Opportunity Assessors and Chartered Engineers.

SIT's CLASIC Approach to Social Innovation

Launched in October 2020, the Community Leadership and Social Innovation Centre has since set in motion a grant scheme, a module revamp, as well as a pipeline of projects aimed at benefitting the community



Asst Prof Intan Azura Mokhtar, Deputy Director, CLASIC (extreme left), Ms Lee Mui Hoon, Senior Assistant Manager, CLASIC (second from left) and Prof Yaacob Ibrahim, Director, CLASIC (extreme right) met up with representatives from Engineering Good in November 2020 to discuss collaboration opportunities. The CLASIC team now also includes Senior Lecturer Dan Chia as Assistant Director.

The problems of today's world are often multifaceted and need to be looked at from all angles with the relevant contexts in mind.

Social innovation projects allow students to apply diverse approaches to achieve impactful solutions for challenging issues and promote a more resilient community that strives for continuous improvement.

With a mission to strengthen the SIT-DNA value of being 'Grounded in the Community', the Community Leadership and Social Innovation Centre (CLASIC) at SIT has been set up as a one-stop centre that curates, coordinates, and oversees community and social innovation projects and initiatives across the university. CLASIC, which recently

celebrated its first anniversary on 25 November 2021, is working to make SIT an academic partner of choice amongst philanthropic, community and industry partners for community-related projects and initiatives.

One such partner is the Yangzheng Foundation, which aims to "promote, foster, develop and improve education in Singapore and to provide financial support for the needy students and other charitable bodies to aid social development of the society". The Foundation made a generous term gift of \$150,000 in December 2020 to make possible the **Yangzheng Foundation Community Leadership and Social Innovation Grant** to support programmes and projects under CLASIC.

Empowering Future Talents to Lead with Impact

By drawing on the expertise of SIT academic staff and complemented by SITizens' involvement across various clusters, CLASIC curates projects that would enhance the quality of life of identified beneficiaries. Each project will involve at least two SIT students, who will be mentored by faculty or a Professional Officer. Students will be exposed to projects that will enable them to be more attuned to the needs of different segments of the community, informed of industry practices, and motivated in the exploration of innovative solutions that benefit the wider community.

Change Management Module Refresh

SIT is also expanding the breadth of its curriculum to afford greater interdisciplinarity in learning. CLASIC has recently revamped the 'Change Management' module to incorporate a stronger focus on social context elements to complement students' learning in their domain expertise. These elements will develop a student's keen understanding of how situations and problems need to be assessed holistically, and the

skills for arriving at diverse sets of ideas and meaningful solutions. The module refresh will be introduced for selected programmes in this Academic Year (AY) 2021/22, and is scheduled to be rolled out across all SIT degree programmes by AY 2023/24.

Creating Practical Solutions through Impactful Projects

A CLASIC project grant scheme has been established to fund service-learning, social innovation,

or community-related projects by SIT students under the mentorship of faculty and Professional Officers. Project proposals will be evaluated based on criterion such as the opportunity for students to interact with community members, academic staff to leverage their professional expertise, and the community impact they hope to achieve.



Both CLASIC and the National Centre of Excellence for Workplace Learning (NACE@SIT) will jointly engage the elderly residents and staff of Kwong Wai Shiu Hospital to understand their needs and expectations of the hospital's upcoming nursing home in Potong Pasir.

The CLASIC team is currently facilitating 10 projects (and counting) and working with a wide spectrum of partners, including industry leaders, secondary schools, and social service agencies. One such project is a collaboration with Kwong Wai Shiu Hospital (KWSH) to engage the elderly residents and

staff of KWSH to better understand their needs and expectations of the features in their new nursing home in Potong Pasir.

"Working together on community projects will allow students across disciplines to learn that to formulate practical solutions for issues that impact society often

require a holistic assessment of the environment and its stakeholders. This is where they can further develop their creativity, as well as analytical and critical thinking skills, which are crucial for the future economy," commented Prof Yaacob Ibrahim, Director, CLASIC. "Do keep us in mind if you have ideas for a community project!"



Spot making its rounds and impressing visitors at the 'PDD: Connecting Smartness' event. Image courtesy of JTC Corporation

Cyber Soldiers and Robodogs

SIT is collaborating with cybersecurity and technology firms to groom and train young talent, and providing a testbed for new products and services – a symbiosis that will form the heart of the Punggol Digital District

Punggol Digital District (PDD), the future home of the Singapore Institute of Technology (SIT)'s new campus, is well on its way to claim its status as Singapore's first smart business district. At the 'Punggol Digital District: Connecting Smartness' event on 28 July 2021, JTC Corporation announced that four companies – Boston Dynamics, Delta Electronics International (Singapore), Group-IB, and Wanxiang Blockchain – have confirmed plans to set up offices in the district, bringing to life PDD's ambition of being a living lab for new concepts and solutions.

Tightening Cyber Security through Industry Tie-Ups

PDD will house Singapore's highest concentration of cyber security associations, including **Group-IB**, an international threat hunting and cyber intelligence firm. The organisation will collaborate with SIT to design and engineer a virtual testing environment for early-stage companies and start-ups to test their solutions for cyberattacks. Called the PDD Cyberpolygon Sandzone, the cybersecurity testing facility will offer a platform for large-scale ethical hacking,

vulnerability research and networking events, including those where cybersecurity analysts can engage with students to share knowledge and expertise.

Building Capabilities in Field and Service Robotics

In addition to cyber security, SIT will also collaborate with **Boston Dynamics** and local start-up **dConstruct Technologies** on the learning and applied research of robotics systems. Boston Dynamics, a global leader in

developing highly advanced mobile robots that can traverse rough terrain, is one of the companies setting up in the PDD. Using Boston Dynamics' robot – Spot – and dConstruct's software programming tool, SIT students will be able to develop robotics solutions to improve campus experiences, such as last-mile delivery and smart campus management. The Spot robot has been operational since September 2019, when it was first used by the Government Technology Agency (GovTech) in robotics applications trials. Now, Spot will be used in PDD for applications such as the laser scanning of construction sites and inspecting remote or dangerous environments.

Bridging Academia and Industry

Prof Tan Thiam Soon, then President, SIT, and Assoc Prof Steven Wong, Director, Centre for Digital Enablement (CODE), introduced guests at the event to the areas of collaboration that industries can partner the university on. These include academic and applied research, education and training, and collaborative spaces – such as Design Factory@SIT and RaPID – where innovation can take place.

By playing an integral role in enabling such collaborations between industry and academia, SIT's future home, is shaping up well in transforming and propelling Singapore's digital economy forward.



Prof Tan (top photo, presenting) and Assoc Prof Wong (bottom photo) at SIT's booth. Images courtesy of JTC Corporation

"Punggol Digital District: Connecting Smartness" Event, 28 July 2021

PDD BUG BOUNTY PROGRAMME PRIZE GIVING CEREMONY



Mr Joel Chan Zhee Meng (left) and Prof Tan Thiam Soon with the certificate he received at the prize giving ceremony held at the 'PDD: Connecting Smartness' event. Image courtesy of JTC Corporation

Group-IB has partnered with SIT, the Cyber Security Agency of Singapore (CSA) and cyber security community — Division Zero, to organise the inaugural PDD Bug Bounty programme on 11 May 2021 at SIT@NYP Building. Close to 50 SIT Information and Communications Technology (Infocomm Technology) students were given four hours to identify vulnerabilities – also known as 'bugs' – that can compromise building management systems hosted on an isolated network managed by SIT. Final-year Infocomm Technology (Information Security) student, Mr Joel Chan Zhee Meng, emerged the winner for the programme's Speed Round, where he uncovered the first 'bug' in less than 10 minutes.

"The PDD Bug Bounty was a one-of-a-kind experience for me. It allowed me to challenge my peers in a competitive environment, and apply what I've learnt in the classroom and at my work attachment. It's a good hands-on opportunity to hone our skills in a real-world setting, and prepares us for what's to come as a career in this purposeful sector," reflected Mr Chan, who pursued his Integrated Work Study Programme (IWSP) at SEC Consult Pte Ltd, where he performed security testing and source code review, among other tasks.

Software Engineers: The Neonatal Intensive Care Unit's New Heroes

A team of final-year ICT (Software Engineering) students create an impactful productivity app for the Neonatal Intensive Care Unit team at National University Hospital



(From left) Mr Tan Phee Boon, Mr Elson Pang, Mr Muhammad Haikal Bin Abdull Razak and Mr Darren Ong demonstrate how Software Engineering can help bridge healthcare and ICT to create a meaningful impact on lives through their app.

What began as a student project for Software Engineering undergraduates Mr Elson Pang, Mr Tan Phee Boon, Mr Darren Ong and Mr Muhammad Haikal Bin Abdull Razak in the second year of their studies came to fruition as an innovative productivity tool that was used by doctors in the Neonatal Intensive Care Unit (NICU) at the National University Hospital (NUH).

"I've always wanted to do something related to healthcare, and that can have a huge impact on society," said Mr Pang. "It's the very reason why I embarked on software engineering - because I was very passionate about helping others through ICT," he added.

The initial brief for the project was to come up with a mobile database to store medical information. However, the team later identified opportunities to increase the app's functionalities. They scoped three key workflow areas to improve on:

Minimise Human Error:

The previous process required manual input and calculation using Excel, and the mobile app eliminates this by providing faster and better computation on the spot. In fact, the team managed to resolve the issue of computing the formula right down to the decimal point.

Offline Capability:

Since medication is updated very frequently, the team managed to create a database that could be updated not just on-the-go but also offline.

Portable Solution:

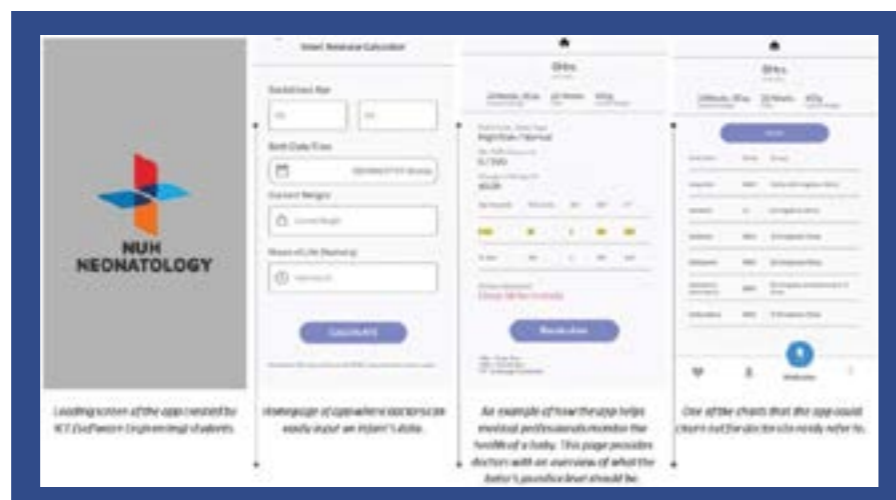
In emergencies, a mobile app with its portability is definitely an advantage. In cases of infant resuscitation, a lot of medication and tubings are required, and with the app, doctors only need to input basic details in order to generate life-saving information.

The team worked together on the app for two days a week over a period of about five months, allowing Dr Low Jia Ming and her medical team to pilot test the app

for safety before it was rolled out in the Neonatal Department. "It was encouraging to see how everyone worked really hard on the app within the given time, despite having to conduct their research and iterations remotely," said Dr Low, referring to how all the meetings were conducted virtually due to COVID-19 measures.

The entire project was a culmination of what the team learnt by Year 2 of their Software Engineering degree, including Mobile App Development, Human-Computer Interaction, and Intro to Software Engineering. These modules helped the team create an intuitive, easy-to-use User Interface (UI) within an agile framework methodology.

Dr Low, who was in charge of the students' project with NUH's NICU, found the team easy to work with and incredibly patient with their requests. "They went beyond the call of duty to ensure that the app could be used, and I am immensely grateful for it," said Dr Low.



Innovative Foods for the Future

3D-printed Peanut Butter Chocolate Cookies, Vegan Chilli Crab Pie, Plant-based Seaweed Chicken with Spirulina - these top three winners at the Food Technology Project Exhibition and Industry Engagement Day are all products created by final-year students

Graduating students applied the knowledge acquired over their four years of studies as they pitched their food products and businesses cases to both faculty and industry partners at the annual 'Food Technology Project Exhibition and Industry Engagement Day' held on 16 April 2021 by the Singapore Institute of Technology (SIT) and Massey University.

The featured projects used novel ingredients and manufacturing methodologies, winning certificates as well as cash prizes for the respective teams.

"The SITizens have outdone themselves. Most of them addressed technically-challenging problem statements, and did a

good job in developing potentially scalable and marketable products that are appealing and tasty," said Assoc Prof Wang Mei Yin, Programme Lead, Food Technology, SIT. "I wish them all the best as they venture into the working world."

Best Product: Plant-based Seaweed Chicken with Spirulina

A team of students partnered with leading industry ingredients manufacturer Roquette to create Seaweed Chicken with Spirulina, the plant-based version of popular finger food seaweed chicken.

Targeted at consumers who are consciously making informed choices and seeking healthier, more environmentally sustainable dietary options, the plant-based version comprises pea protein, a blend of seasonings, and spirulina as an alternative to the meat portion of the product. It is then wrapped with seaweed for a boost of flavour and nutrition.



Student team with industry partner Ms Tracy Lim, Technical Developer, Roquette (fourth from left), with their creation - Plant-based Chicken with Spirulina.

Best Market Potential Product: Vegan Chilli Crab Pie

SITizens collaborated with industry partner Tee Yih Jia Food Manufacturing (TYJ), to extend their range of meat-free products, and successfully developed a ready-to-eat Vegan Chilli Crab Pie, which is also convenient for the busy consumer.

They conducted extensive trials and multiple experimentations with novel plant-based ingredients to replicate the taste of meat and flavour. The high protein product requires minimal preparation and provides the full experience of a chilli crab dish - without the mess that comes with deshelling the crabs.



SITizens posing with their creation - ready-to-eat Vegan Chilli Crab Pie.

Most Innovative Product: 3D-Printed Peanut Butter Chocolate Cookies

Identifying a huge growth opportunity in the 3D-printed food market in Asia Pacific, the team ideated 16 different ready-to-eat products before finalising their creation, 'Peattur Chockies' - 3D-printed peanut butter chocolate cookies.

The idea is to sell Peattur Chockies in vending machines, where customers can observe the cookies being printed on the spot after customising their desired sweetness level, shape, and size. The team also proposed that pre-orders can be made through a mobile app, and the product to be sold at \$3.00 for a 40-gram packet (estimated eight pieces).



The team of students took on the challenge of producing tasty and intricate 3D-printed cookies.



SIT Bolsters Food Technology Offerings to Support Singapore's Burgeoning Agri-Food Sector

Set to launch FoodPlant, a brand-new small batch food production facility in early 2022, SIT will also offer the first specialised hands-on High Moisture Extrusion Technology course to the public

The Singapore Institute of Technology (SIT) announced new measures that will bolster its offerings for professionals and companies looking to level up and create a bigger impact in the Food Technology sector in Singapore.

The measures include a new small-batch food production facility that will enable local food players to trial new products on a smaller and more cost-effective scale, as well as the introduction of a new Continuing Education Training (CET) course in High Moisture Extrusion Technology (HMET).

These initiatives will help equip the local workforce and companies with

added capabilities to leverage the global momentum in sustainable food production, and develop new innovative food products to meet evolving consumer demand.

Open for Founding Members: Small Batch Production Facility to Boost Food Innovation

Designed to help food companies reduce capital and operating costs through shared facilities and services, the new FoodPlant is now open for pioneer membership.

Run by SIT in partnership with Enterprise Singapore (ESG) and

JTC, the facility is targeted to be launched in early 2022 at JTC Food Hub @ Senoko. It will provide a space for a range of food companies, from startups, SMEs to MNCs to test the viability of their new products via small batch production.

Food manufacturers often face challenges such as a lack of quality facilities, expensive equipment, large opportunity costs and high minimum order requirements from outsourced manufacturers. Hence, the new facility will provide a much-needed boost to food manufacturers looking to develop and scale the rollout of new products, post R&D.

Said Ms Bernice Tay, Director, Food Manufacturing, Enterprise Singapore, "The changing environment and consumer preferences make it even more critical now to have differentiated products that address market needs. The new facility can help food manufacturing companies kickstart their innovation efforts, while mitigating some of the cost and equipment challenges they may face, especially in the current climate. We encourage companies to tap on the facility's services to test-bed new technologies such as high-moisture extrusion technology and accelerate their new product commercialisation."

"FoodPlant is a strategic addition to JTC Food Hub @ Senoko. As the first shared facility for small batch production, FoodPlant will plug into the large ecosystem of food companies and food start-ups in Singapore, and help them to accelerate the development, adoption and commercialisation of new food technologies. We will connect food companies in our estates island-wide to tap on this new facility," said Mr Eugene Lim, Director of Food and Lifestyle Cluster, JTC.

Players in the Food Technology space can now start taking advantage of FoodPlant's facilities and consultancy services ahead of its opening in 2022 through pioneer memberships that offer significantly reduced annual membership fees.

As FoodPlant's founding members, companies will also enjoy priority booking of facility and additional discounts on top of early registrations. For more information on its membership plans, interested parties can email hello@foodplant.com.sg or visit www.foodplant.com.sg.

First in Singapore CET Course to Provide In-Demand Hands-On Skills for Food Tech Professionals

Additionally, SIT has launched a new hands-on Food Technology CET course, 'High Moisture Extrusion Technology (HMET) for Meat Analogues' on 24-25 June 2021.

Through the course, food technology professionals will be trained on high moisture extrusion technology (HMET) – a process that texturises plant-based protein into viable meat alternatives – which has also become increasingly popular due to the global meat-free movement gaining pace.

HMET is key to kickstarting the production of meat analogue products from plant protein sources, such as wheat gluten, soy and pea proteins. An extruder machine similar to the one used for this CET training course will be available at the FoodPlant, as part of the facility's wide range of affordable pilot scale equipment.

This course will be led by Assoc Prof Lim Bee Gim, Chemical

Engineering and Food Technology cluster, SIT, and CEO, FoodPlant. Participants will learn how to yield product textures that resemble meat via extrusion technology upon completion of the training course. These products can then be further processed to produce plant-based meat alternatives or ready-to-eat products that involve other conventional meat processing operations such as slicing, mincing or marinating.

"With the increased availability and consumption of novel plant-based foods gaining ground in recent years, this first-of-its-kind course offered by SIT and the opening of our new FoodPlant will no doubt benefit local companies keen to learn more about this unique food production process and include it as part of their manufacturing repertoire. Aligned with Singapore's renewed focus on seizing growth opportunities in sustainability, we hope that our suite of new offerings will provide a boost for the Food Technology sector in Singapore, alongside our ongoing industry partnerships and existing academic programmes," said Assoc Prof Lim.



The extruder that texturises plant-based proteins into viable meat alternatives. A similar extruder will be available at the upcoming FoodPlant.

A Tradition of Excellence

SITizen Bi-Annual presents a walk down memory lane for SIT's Recognition of Excellence presentations, from AY 2015/16 to AY 2020/21

Since it was first held in 2015, the Recognition of Excellence (ROE) has become a highlight on the university calendar at the Singapore Institute of Technology (SIT).

ROE is a special annual celebration where student performance awards and non-bonded scholarships – made possible by SIT's donors – are presented and the achievements of the students recognised. This is also the special occasion where the recipients can interact with the donors and express their appreciation for the generous philanthropic support.

Featuring heartfelt sharing from student speakers, as well as energetic and lively performances from SIT's student groups, ROE has grown from a cosy event with about 120 guests in 2015 to close to 800 attendees in 2019, when it was last held as a physical event before the pandemic.

More than 200 guests including SIT's donors and recipients were present at the event held on 26 October 2016. 15 named scholarships were presented to 35 scholarship recipients, along with 24 Book Prizes and three Outstanding Student Awards.

AY 2015/16



◀ Prof Tan Thiam Soon, then President, SIT, delivering his welcome remarks to the 120 guests in attendance at the very first ROE on 16 October 2015.



◀ The award winners with SIT Senior Management and members of SIT's Board of Trustees after the event held at the Auditorium Foyer at SIT's Dover Campus. A total of 23 awards were presented.

AY 2016/17



▶ Scholarship recipients with SIT senior management at the second ROE held at the Student Activities Centre. Donor-supported non-bonded scholarships were presented for the first time.



AY 2017/18



◀ More than 300 guests congregated in the Sports Hall which was transformed for the event on 26 October 2017.

▶ A total of 49 Performance Awards and 40 non-bonded scholarships were presented on the day. The event also featured performances from SIT's student groups and an innovation showcase featuring student's latest innovative projects.



IMAGE WASN'T PROVIDED

AY 2018/19



◀ A total of 59 Book Prizes, Awards and Gold Medals, and 134 non-bonded scholarships were presented at ROE in 2018.

▶ Held at the Auditorium, the fourth ROE took place on 1 November 2018 with close to 540 attendees. Pictured here are SIT senior management, SIT's donors and faculty, together with the award and scholarship recipients.





Prof Chua Kee Chaing, then Deputy President (Academic) and Provost, SIT, presenting a certificate to an award recipient.

◀ Making a special return at the 2019 ROE was alumnus Mr James Fou (right) who was one of the student speakers at the very first ROE. Alongside him are Mr Low Qing En (left) and Ms Chiam Jia Ying who received awards and a scholarship respectively.



◀ More than 160 non-bonded scholarships and 98 awards were presented to SIT students at the presentation, as well as at the graduation ceremonies held earlier in October that year.



Due to the COVID-19 pandemic, the Recognition of Excellence took the form of a microsite featuring thank you messages from the award and scholarship recipients, as well as video messages from Prof Tan Thiam Soon, then President, SIT, and Prof Chua Kee Chaing, then Deputy President (Academic) and Provost, SIT.



ROE 2021: Celebrating Brilliance on a Virtual Stage

Further apart and yet very much closer. Amid the pandemic, SIT's first virtual Recognition of Excellence strikes a memorably intimate note in a special year

The screen came alive at about 4:20 pm on 25 November 2021 - with the bright young faces of 10 SITizens. They had one thing in common: All had received donor supported scholarships and student performance awards.

Among them was scholarship recipient Ms Lim Wan Ting, a Year 3 Air Transport Management student. She talked about volunteering with her fellow SITizens at a soup kitchen on a monthly basis since the beginning of 2021. She was not alone. As Nursing student Ms Shehzahdi Shehrin put it in a later segment, the donor support had given her and her fellow presenters, Mr Alex Tan and Mr Mervin Ho

(from the Civil Engineering and Hospitality Business programmes respectively), the inspiration and the bandwidth to explore exciting learning opportunities at SIT and beyond. Mr Alex Tan, for example, spearheaded "The Late Bloomer Project" to tutor underprivileged secondary school students. Mr Tan, himself once a Normal Academic Stream student, shared how he was "lucky enough to be guided by dedicated educators" and hence was "inspired" to do the same for other students with a similar background as his.

Close-up images of these earnest and smiling young faces set the tone for ROE 2021, giving SIT's

first virtual ROE presentation a warm personal touch in a year of social distancing. Most memorably, nine donors expressed their well-wishes for the students, through a series of special video recordings that they had made time to shoot.

At ROE 2021, a total of 62 donor-supported Book Prizes, Performance Awards and Gold Medals were presented along with 44 named scholarships to 189 recipients. Speaking from SIT@Dover campus, Prof Chua Kee Chaing, then President-designate, SIT, thanked SIT's donors for seeing the potential in its SITizens, and for their generous commitment to nurture these young talents.



Say cheese! Recipients of awards and scholarships take a photo with Prof Tan and Prof Chua to commemorate the celebration.

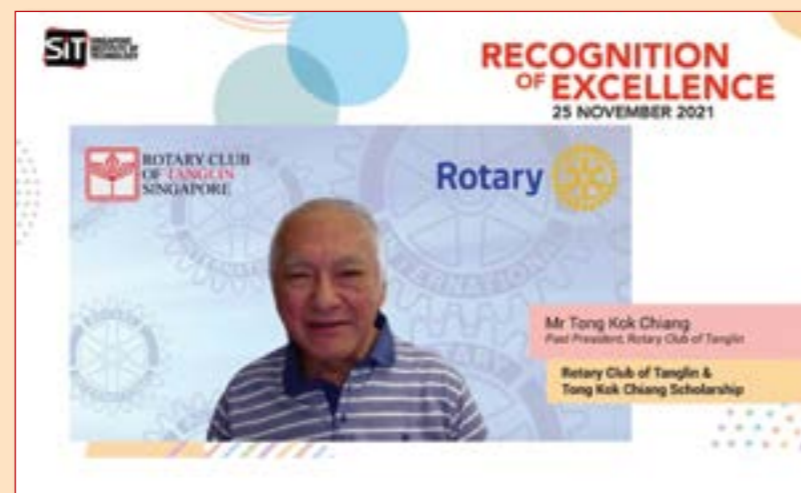
Speaking on how SIT's students are able to participate in the University's applied research and innovation initiatives with the industry, Prof Chua said, "These projects allow our students to put their knowledge to application in real work settings, and further prepare SIT students as a talent pipeline that can help local companies move up the innovation value chain."

In his closing address, Prof Tan Thiam Soon, then President, SIT, gave a snapshot of how well its SITizens are doing – academically and also in the industry, as evidenced by GES 2020, the latest Graduate Employment Survey, which found that SIT's fresh graduates are enjoying an overall employment rate of 95% and a mean gross monthly salary of \$3,675. He added that their success had been shaped by SIT's unique pedagogy that integrates work, study, and community – one that also offers its students many service-learning opportunities through the university's Community Leadership and Social Innovation Centre.

Prof Tan, who presided over the first ROE in 2015, looked back at that small cosy event which presented just 23 donor-supported book prizes, performance awards, and gold medals. He ended the afternoon by looking ahead, to SIT's future campus in Punggol that will help transform Punggol North into a vibrant learning and economic hub – with the support of the SIT community.

He said, "I am optimistic that we will have many more opportunities for further interaction, collaboration, and progress. This year, ROE has had to go online, but perhaps we can meet again in person next year at this happy event."

ROE 2021: Donors Speak Words of Encouragement



Apart from making possible scholarships and awards, nine of SIT's donors (in order of appearance, from facing page) took the time to make a special video recording of heartfelt messages for the students.

ROE 2021: An Afternoon of Substance



SITizens wave hi as they take turns for their time to shine.



SITizens took to the virtual stage before the start of the ROE ceremony to share how receiving philanthropic support has impacted their lives.



Ms Shehzahdi Shehrin, Mr Mervin Ho and Mr Alex Tan (from left to right) in a Zoom presentation to share more about the exciting initiatives and learning opportunities they are involved in.



Prof Chua Kee Chaing, then President-designate, SIT, welcomed the audience to the seventh ROE presentation. He thanked SIT's donors for seeing the potential in the award and scholarship recipients, and for their generous commitment to nurture these young talents.



Prof Tan Thiam Soon, then President, SIT, took a look back at the first ROE in 2015, and closed the ceremony by looking ahead to SIT's future campus that will turn Punggol North into a vibrant hub - with the support of the SIT community.



Proud SITizens flashing smiles as they complete The Ireland Funds Singapore Remote Global 5K.

Passing the Virtual Baton

Lacing up their trainers, SITizens push to clock 5 km for The Ireland Funds Singapore's Remote Global 5K event, all in support of the Special Olympics Singapore

On 18 September 2021, more than 200 participants - including students and staff of the Singapore Institute of Technology (SIT) - joined The Remote Global 5K, a virtual event hosted by The Ireland Funds Singapore.

The Remote Global 5K saw Ireland Funds chapters passing the virtual baton across different time zones, starting in Australia and Singapore, and on to Ireland and the UK, and then cities across the USA. In 2021, The Ireland Funds of Singapore partnered and supported Special Olympics Singapore, which provides year-round sports training and athletic competition in a variety of Olympic-type sports for children and adults with intellectual disabilities.

Participants could run, bike, swim or stroll at this year's Global at a place and time of their choosing in the 2021 edition of the Remote Global 5K.

One of the participants, Mr Darren Loo, Year 2 Air Transport Management student and SITizen Ambassador, opted to run. He also

walked in residential areas for some segments of his route to form the shape of "SIT" on the map to show his support.

He said, "Although we did not run physically together, it was enjoyable because it felt like a team event! We ran and updated one another about our progress. We even recorded a few entertaining segments of Irish dances and made a video collage. It was very meaningful as we all got together for a charitable cause and gave back to the community as SIT!"

"We were delighted to have such great support from SIT for our Global 5K event again this year and we especially enjoyed the SIT contingent's video montage and very impressive Irish dance moves! We look forward to an in-person Global 5K in 2022 and in the meantime, hope we can collaborate with SIT in March 2022 for our Sense of Ireland celebration," said Ms Pamela Spreckley, Executive Director, The Ireland Funds Singapore.

Said Dr Stanley Quek, Chairman, The Ireland Funds Singapore, "This is the third time The Ireland Funds Singapore is hosting the Global 5K, and the second time that it was run as a virtual event. I am very happy that the pandemic did not deter the participants from coming together remotely. I hope they had fun in the process!"

The Ireland Funds Singapore, which aims to further develop the long historical relationship between Singapore and Ireland, has made possible The Ireland Funds Singapore Overseas Immersion Programme (OIP) Grant at SIT. Dr Quek has also made possible the Tan Mui Eng Bursary to support Nursing or Allied Health undergraduates, as well as the K M Quek Applied Research Grant to support research projects involving undergraduates participating and learning at SIT's Centre of Health Sciences Research & Innovation.

Helping Future Nurses to Overcome Challenges

An endowed gift from the Diana Koh Foundation has made possible the Lim Leng Swan Study Grant for Nursing undergraduates

Nursing students of all nationalities who qualify for financial aid at the Singapore Institute of Technology (SIT) have a timely new source of support - the Lim Leng Swan Study Grant. Valued at \$5,000 each, four Study Grants will be given out annually and in perpetuity, from Academic Year 2021/22 onwards. The grants are tenable for the recipients' entire course of studies.

The Study Grant is made possible by a gift from the Diana Koh Foundation, through The Community Foundation of Singapore. Madame Maria Lim Leng Swan, the mother of Ms Diana Koh Ming Ying, passed on in 2008. Ms Diana Koh passed away in May 2019, leaving behind an Estate that she has willed to charitable organisations in Singapore. Given Diana's deep devotion to her mother, her Estate has deemed it appropriate to leave a legacy

in memory of Madame Maria Lim Leng Swan by providing support to the nursing sector in Singapore from the Diana Koh Foundation. Madame Lim was a trained nurse who had to overcome many challenges in her lifetime. Yet she raised Diana to be a successful and caring individual. This legacy is intended to celebrate both their lives.

Said Prof Tan Thiam Soon, then President, SIT: "The ongoing pandemic has shown more clearly than ever the valuable role of nurses, both in saving lives and in providing a depth of care that can help restore body and spirit for their patients. We are deeply grateful for the Diana Koh Foundation's support in nurturing passionate future nurses for the healthcare sector."

The Bachelor of Science with Honours in Nursing is a two-year degree programme jointly offered by SIT and the University of Glasgow. Co-created and designed with input from practice partners and the Ministry of Health, the programme will equip students with the relevant knowledge and skills that will help them take on challenges in Singapore's future healthcare industry and take the nursing profession forward. Through SIT's applied learning approach, graduates will be able to translate new nursing knowledge into practice. This programme is accredited by the Singapore Nursing Board.



The Lim Leng Swan Study Grant will nurture nursing undergraduates throughout their entire course of studies.

The Nutritional Way to Health

SITizens from the Dietetics and Nutrition as well as Nursing programmes were treated to a lecture by Dr Ang Poon Liat, the paediatrician and author who has also made possible the Dr Ang Poon Liat Bursary at SIT



Dr Ang Poon Liat giving a lecture on countering the effects of rapid ageing through correct nutrition and lifestyle choices.

The adage “You are what you eat” was explored in greater detail at a special lecture given by Dr Ang Poon Liat at the Singapore Institute of Technology (SIT) on Friday, 20 August 2021.

A paediatrician with over 45 years of clinical practice, Dr Ang has a special interest in nutrition and its impact on childhood development, health, behavioural disorders and ageing. He has written two books – *The Wonders of Nutrition*, which details how genes and our dynamic bodies respond to food and lifestyle, as well as *Roadmaps to Recovery*, which explains how correct and balanced nutrition plays a pivotal role in healing chronic degenerative diseases. In 2020, he also made possible the Dr Ang Poon Liat Bursary at SIT, to support undergraduates who are pursuing a degree programme in Dietetics and Nutrition or Nursing. They will occupy a critical role in aiding recovery, as well as extending the health span and

lifespan of their patients once they graduate.

Along with faculty, more than 20 students from both degree programmes attended the lecture which focused on the effects of rapid ageing, and how food and lifestyle can help reduce the effects of chronic degenerative diseases. They also received copies of Dr Ang’s books. This lecture is the first part of a six-lecture series with the theme “Food for Health” that Dr Ang gives publicly.

Among those who attended the lecture was Ms Stephanie Tan, a Year 2 Dietetics and Nutrition student. She said, “The highlight for me was definitely the Question & Answer portion as my classmates and I had similar questions – for example if a keto diet was sustainable. After the lecture, we also continued talking to Dr Ang to further clarify our thoughts. My biggest takeaway was definitely to keep an open mind in learning.”

Said Dr Ang, “I very much enjoyed interacting with the students through this lecture. After they graduate, these Nursing as well as Dietetics and Nutrition students from SIT will help drive patient care in Singapore, and I hope they have gained some knowledge or ideas today that will prove useful in their future work.”



Those who attended the lecture also received a copy of Dr Ang’s book, “The Wonders of Nutrition”, written with the primary purpose to prevent people from suffering chronic degenerative diseases, which are responsible for our rising healthspan worldwide.

A Burst of Goodwill

Temasek Foundation Sunburst Scholarship to nurture service leaders at SIT

Young service leaders at the Singapore Institute of Technology (SIT) will soon be empowered by a new scholarship. The Temasek Foundation Sunburst Scholarship offered in partnership with SIT, aims to nurture academically talented undergraduates who have a heart for serving the community.

Thanks to a grant from the Temasek Foundation, SIT will be enabled to award three scholarships to Singaporean undergraduates pursuing any degree programme in their first or second year of studies from the next Academic Year 2022/23. Valued at \$14,000 each per annum, the Scholarship will support its recipients throughout their entire course of studies. The Scholarship will be applicable to students who have good academic results, and a good record of community service.

To continue nurturing their passion for the community, recipients will be encouraged to achieve 60 hours of community service throughout the entire tenure of the Scholarship and participate in sustainability or community projects, including a youth programme supported by the Temasek Foundation. They will also be encouraged to be part of Temasek Foundation’s youth alumni network, where they can be exposed to different ways of impacting the community.



Said Prof Tan Thiam Soon, then President, SIT, “SIT is honoured by this support from the Temasek Foundation to nurture student excellence through the Temasek Foundation Sunburst Scholarship. It is our hope that the scholarship recipients will help strengthen social resilience as service leaders, by making a difference in the lives of those who are underserved.”

“ We hope the recipients of the Temasek Foundation Sunburst Scholarship at SIT will continue to pursue academic excellence in tandem with their initiatives to make a positive impact on communities in Singapore and beyond. We know that the future will bring to them many opportunities to serve their respective communities. ”

Mr Benedict Cheong
Chief Executive,
Temasek Foundation International

Nurturing Tomorrow's Talents

New scholarships made possible by the CBJ Foundation and the Tseng Family Foundation will nurture young talents in ICT and Health & Social Sciences respectively

In March 2021, the Singapore Institute of Technology (SIT) played host to some very special guests for an appreciation lunch. These were representatives from the CBJ Foundation as well as the Tseng Family Foundation and they were visiting SIT for the first time. The two foundations had made possible the CBJ Foundation Scholarship as well as the Tseng Family Foundation Scholarship at SIT – through The Community Foundation of Singapore – to support academically talented undergraduates with demonstrated leadership qualities.

The CBJ Foundation Scholarship will nurture undergraduates pursuing a degree under SIT's InfoComm Technology Cluster, whereas the Tseng Family Foundation Scholarship will support undergraduates pursuing a degree under the Health & Social Sciences Cluster. Both named Scholarships (valued at \$10,000



Prof Tan Thiam Soon (left) sharing a fist bump with Mr Joon Kim of the CBJ Foundation.

each) will be awarded from this Academic Year 2021/22 onwards.

"As a young university, SIT is both encouraged and inspired by the support from the CBJ Foundation and the Tseng Foundation. The impact of the Foundations' philanthropic commitment will nurture future professionals and leaders, and generate a positive multiplier effect for the industry and the community in the years to

come," said Prof Tan Thiam Soon, then President, SIT.

Representatives from The Community Foundation of Singapore and Sim Mong Teck & Partners were also present for the visit where the guests toured some of SIT's teaching and learning facilities at SIT@Dover.

Said Ms Joyce Teo, Deputy Chief Executive Officer of The Community Foundation of Singapore, "We are pleased to partner SIT, with our shared belief in SIT's applied learning pedagogy, to support promising students in ICT and Health and Social Sciences to develop their potential to grow into future community leaders and top talents in their chosen fields."



Mr Steven Tseng (centre) and Mr William Tseng (right) of the Tseng Family Foundation presenting the cheque to Prof Tan for the establishment of Tseng Family Foundation Scholarship at SIT.



Undergraduates at SIT from can look forward to the new P.L.A.Y. Lam Family Fund Bursary and P.L.A.Y. Lam Family Scholarship.

Impactful P.L.A.Y.

A new bursary and scholarship established at SIT will nurture undergraduates from all academic disciplines

In this Academic Year 2021/22, a new bursary at SIT has been made applicable to all Singaporean and Singapore Permanent Resident undergraduates who qualify for financial aid. This is the **P.L.A.Y. Lam Family Fund Bursary** which was established in June 2021 (the letters P, L, A, and Y are the initials of the family's members).

Said Mr Lam Yi Young, who made possible this bursary together with his family, "SIT plays an important role in providing tertiary education opportunities to students and in helping them gain practical job skills and be work-ready. My family and I are pleased to be able to support students at SIT in their higher education journey. In particular, we hope to be able to support those who may not be among the neediest group that already qualify for the most support, but who nevertheless require further assistance to make ends meet."

The P.L.A.Y. Lam Family Fund Bursary will be open to financially disadvantaged undergraduates from all academic disciplines at SIT. It is expected to be even more impactful for bursary recipients whose monthly household per capita income (PCI) range from \$1,001 - \$2,250, as this group of undergraduates are eligible for relatively less support from public bursaries. (They are eligible for the Higher Education Bursary that is valued from \$1,350 - \$3,200, while those whose PCI is \$1,000 and below are eligible for the Higher Education Community Bursary that ranges from \$5,000 - \$6,200). In comparison, tuition fees for a Singaporean undergraduate at SIT in the current Academic Year 2021/22 start from \$7,500 annually.

Said Prof Tan Thiam Soon, then President, SIT, "We are very appreciative of this bursary made possible by Mr Lam and his family. Many of our students are the first in their families to attend

university and this bursary will give more of our students the extra financial help they may need to pursue their studies no matter their financial background."

In August 2021, Mr Lam and his family also made possible the **P.L.A.Y. Lam Family Scholarship**, applicable to academically talented undergraduates pursuing a full-time degree programme at SIT. The Scholarship (valued at \$10,000 each) will be awarded from the next Academic Year 2022/23 onwards.

Staying Connected through Mentoring

The SIT Alumni Mentoring programme continues to link SIT alumni and students through shared experiences and knowledge. We take a look back at the mentoring journey so far.

First launched in September 2020, the SIT Alumni Mentoring Programme is designed to bring together SIT alumni and students, providing opportunities for them to foster personal and professional growth through sharing and interaction. Facilitating the exchange of knowledge and skillsets, the programme had successfully matched a total of 154 mentors and 184 mentees by the end of November 2021.

The second cycle of the SIT Alumni Mentoring Programme, which began officially on 17 March 2021, brought together 49 mentees with 45 mentors - with as many as 10 happy mentors returning from the first cycle. The participants had their first meeting through dinner meet-ups conducted in groups, held over 15 sessions from 22 March to 22 April 2021. Unfortunately, with the implementation of Phase 2 (Heightened Alert), face-to-face meet-ups from then on had to be suspended. Yet, that did not deter the enthusiasm of mentors and mentees, who continued communicating via Zoom and WhatsApp. They also participated in a virtual meetup organised by the Advancement & Alumni Division in July 2021, when they were treated to a talk by career coaching and counselling expert Dr Timothy Hsi on topics such as Career



Mentors and mentees from Cycle 2 enjoyed a fruitful first group meeting over dinner at Mezza9, Grand Hyatt Singapore.



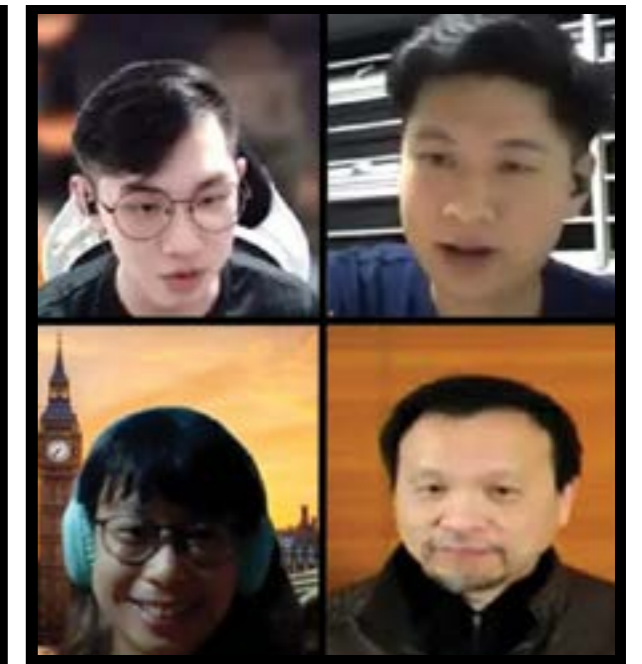
Wellbeing and Learning and Innovation skills.

Said Mentee Mr Edwin Nyeow, an Information and Communications Technology (Information Security)

undergraduate, "My mentor shared with me some common practices when doing software development, as well as digital forensics resources which have been really helpful."



▲ During virtual meet-ups, mentors and mentees break up into groups to discuss topics such as work experience and how to prepare for their future career.

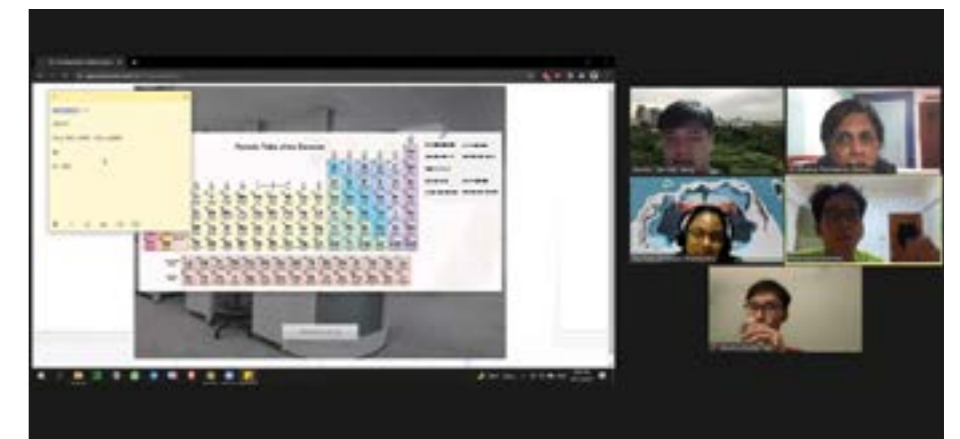


▲ Dr Timothy Hsi (bottom right) engages mentees in discussion during a Meet-&Brief session, which guides mentors and mentees on steps to take in their mentoring journey.

Cycle 3, which began in September 2021 (soon after the conclusion of Cycle 2 the month before) marks the programme's highest participation rate so far, having successfully matched 63 mentors with 82 mentees. The programme continues to encourage the participants to stay engaged by organising virtual meet-ups, the most recent being the Mentoring Social Online Meet-up on 18 November 2021. Mentors and mentees worked together to solve a virtual mystery room, led by event management company JNR Entertainment. With safe management measures easing by the end of November 2021, the participants are looking forward to a proper physical meetup that is planned for January 2022.

Giving Back as a Mentor

The Alumni Mentoring Programme continues to see the return of alumni mentor "regulars" from Cycle 1 to Cycle 3, such as Physiotherapy alumnus Mr Tan Wei Liang and Information and Communications Technology



▲ Mentors and mentees put their heads together to solve puzzles in the virtual mystery room at the Mentoring Social-Online.

(Information Security) alumnus Mr Sam Li.

Mr Tan, who has previously worked as a physiotherapist at National University Hospital and Mount Elizabeth Hospital, said, "I enjoy interacting with the younger cohort to know what's their impression of the profession, and I find it fulfilling to help them realise certain aspects of life and their career development." He recently completed his Master of Public Health at the National University of Singapore (NUS).

Mr Li attributes his motivation as a mentor to his own experience as a mentee in the past. "I used to be a mentee in a similar programme when I was an SIT student, and it greatly benefited me early in my career from the school to work environment," he explained. "Thus I want to help the students to the best of my abilities, and provide them with the guidance they need in their careers or everyday life." He added, "This experience has been really interesting as I also learn about the newest trends and how the new cohorts think from my mentees."



The winning designs of the Sticker-Patch Design Competition 2021 by Ms Nuralisa Binte Ahmad (A, B and D), Mr Tan Kuan Hong Rollin (E), and Ms Nurbaizurah Binte Sahari (C). Designs A, B and C were printed as stickers, while Designs D and E were made into fabric patches.

Sticking Together Through the Tough Times ... and Good

For the second year running, SITizens lend a hand in welcoming new alumni to their ranks

Organised by the SIT Advancement & Alumni Division from 20 August – 20 September 2021, the competition asked SITizens to illustrate what SIT meant to them, or what they thought best represented their time at SIT. The competition for the best designs was open to both alumni and students, and each winner will receive \$80 worth of Grab vouchers, regardless of the number of winning entries.

Participants were allowed to submit more than one design, and all submitted designs were presented to the selection committee as individual anonymised entries for voting.

The designs submitted ranged from the SIT-DNA to out-of-the-world space travel. In the end, judges picked five winning designs to

be made into stickers or fabric patches – as part of the offerings in the New Alumni Welcome Pack that will be sent out to the Class of 2021.

Ms Nuralisa Binte Ahmad, who graduated in 2020, based her winning designs on the SIT-DNA. She said, “It was essential to be able to learn, unlearn, and relearn as I attended lectures and tutorials. I was taught to be a thinking tinkerer as I worked on my dissertation. I met peers who were catalysts for transformation and grounded in the community. All in all, I am proud to be an SIT graduate.”

The competition had Information and Communications Technology alumnus Mr Tan Kuan Hong Rollin (Class of 2018)

reminiscing on the times he spent staying late on campus with his classmates. “Staying late in school for projects and studies could be stressful and daunting at the moment, but when you think back after you graduated, it is actually filled with wonderful memories, especially of those with your classmates and friends.”

Ms Nurbaizurah Binte Sahari (Class of 2014), had this to say regarding her winning entry, “I always have a deep love for the cosmos and space. The endless exploration and possibilities during my time in the SIT-GSA Interior Design programme was exciting for me. Through that journey, I also discovered a lot more about myself and blossomed as a person and creator that I am today as depicted by my illustration.”

Having Fun Together ... on Zoom!



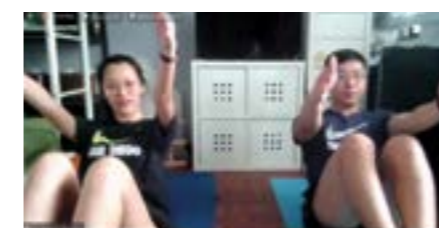
SITizens continue to come together online to exercise, get ‘crafty’, and learn how to adult through the various alumni network events

In 2021, the SIT Alumni Networks organised a total of 16 online events to keep our alumni physically active and mentally engaged.

Pilates | SIT Alumni Sports Network
5 June 2021

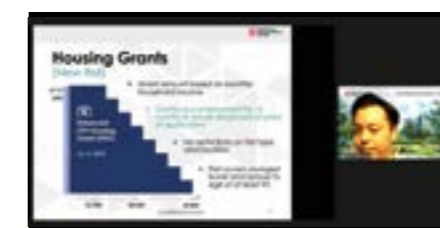
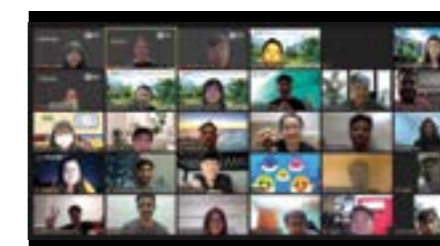
Alumni gathered online on a Saturday to focus on taking things slow through Pilates, a simple yet effective workout to train the body's muscle control and coordination. The session started with simple stretches to get the participants moving and warm up the spine. They focused on slow, concentrated movements, which got their muscles burning in no time.

“The instructor was very clear, and I felt my whole body aching the next day!” Ms Tracy Tay, Hospitality Business alum said. “I think with frequent practice of Pilates, I can tone parts of my body and build muscle strength.”



Buying Your First Home | SIT Alumni Career Network
7 July 2021

Held in collaboration with the Housing & Development Board (HDB), this highly popular webinar provided an in-depth guide on Build-to-Order (BTO) flats as well as the necessary financial planning needed to prepare for a flat purchase. Majority of the participants were either currently planning their finances before exploring available housing options, or wanting to find out more about the options and buying process for flats in Singapore. Some common concerns were how one's ballot chances for a BTO could be affected, as well as how to best utilise the housing grants available.



Zumba | SIT Alumni Sports Network
14 August 2021

Forget about form or control! SITizens let loose and felt the beat in a non-stop, hour-long online Zumba session led by Mr Christian Navales from JR Fitness. While Latin and salsa-style music were usually used for Zumba workouts, Zumba instructor Mr Navales also incorporated remixes from popular artistes such as BTS.

“I had no idea what Zumba was, and I was surprised that it's such a fun exercise with dance moves,” Accountancy alumnus Mr Peh Pei Sheng said. “It did not feel like exercise, even though I was sweating profusely. Great for a couch potato like me!”





“ I gave it to my fiancée and she melted. She gave me an A-star for effort since it was hand-made and way more special than just buying from a shop. ”

Mr Muhammad Zulfiqar
Mechatronics alumnus

Floral Capsule Workshop | SIT Alumni Leisure Network
28-29 August 2021

A total of 55 SITizens gathered on Zoom to learn the basics of floral arrangement and mini bouquet wrapping at the Floral Capsule workshop led by Ms Ong Yi Ting from DIY workshop café Make Your Own.

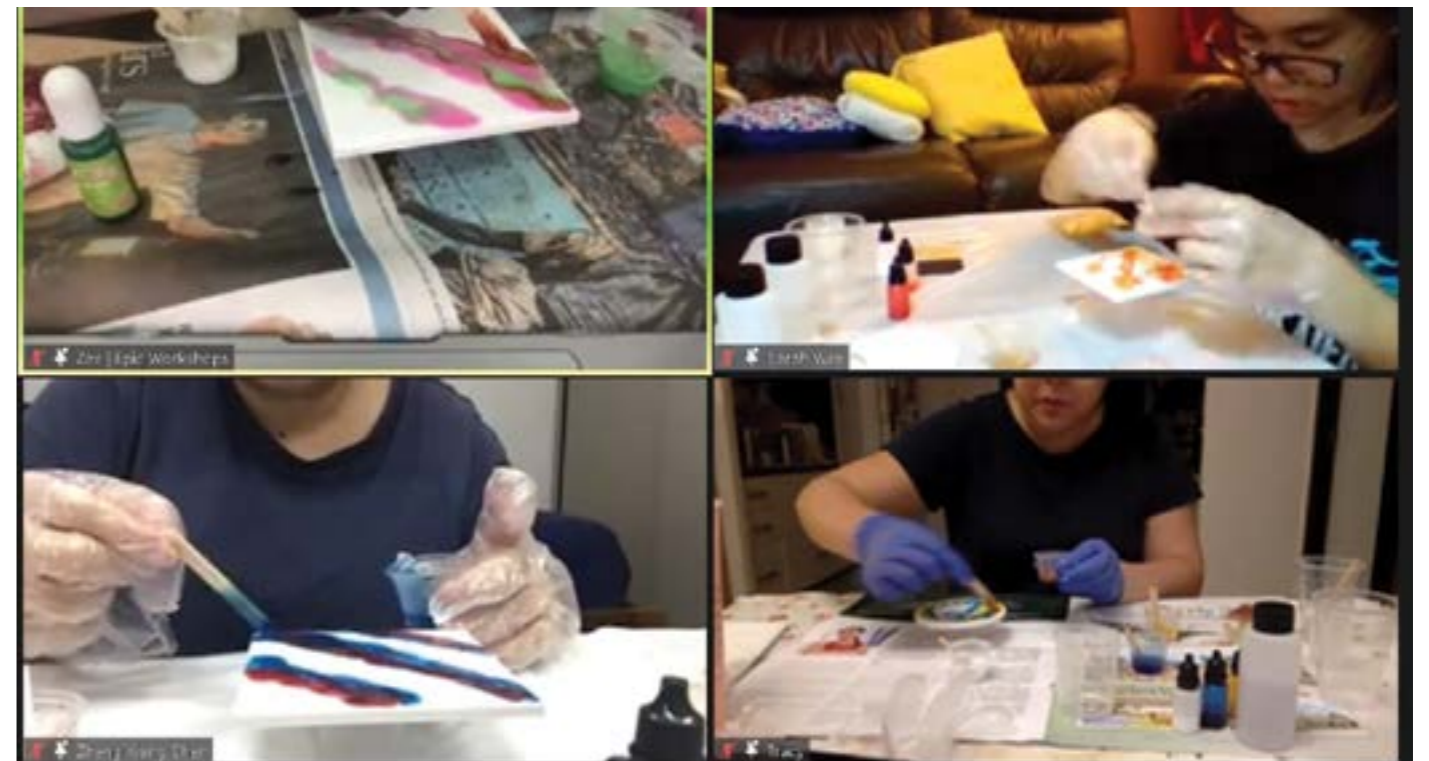
Dried flower arrangements have been gaining popularity over the years due to their longevity. Participants worked with a selection of dried flowers – with unique names such as the star flower, bunny tail and broom – as well as a clear, oval-shaped capsule to contain their completed bouquet.

- Step 1**
Select your flowers and arrange them in an attractive manner
- Step 2**
Secure your bouquet with rubber bands
- Step 3**
Wrap your bouquet with layers of wrapping paper
- Step 4**
Fit bouquet in a capsule and hang it up!



Resin Marbled Coaster Workshop | SIT Alumni Leisure Network
8-9 September 2021

SITizens take another shot at experimenting with resin marbling at the Resin Marbled Coaster Workshop, organised by the SIT Alumni Leisure Network following the popularity of the first Resin Cheeseboard workshop held in April 2021. Participants were provided with two acrylic coasters to decorate with their resin mixture.



Entrepreneurship Series: Redesigning Business Models | SIT Alumni Career Network
15 September 2021

Organised in collaboration with SITLEARN Professional Development, the workshop took the participants through how business models are key in the way organisations create, deliver and capture value. The webinar also discussed how one can shift business models in the ever-changing economy to benefit one's business. It was a lively and engaging sharing session, with

active participation from the alumni attendees from industries such as hospitality, construction, branding, F&B, IT and more.

“The part on the seven possible business model shifts was the most relevant to me as I am in the

branding and consulting industry, so they are pivotal points to discuss with clients who are business owners,” said Communication Design graduate Mr Slash Cheong, who signed up for the webinar as it was applicable towards his work.



Mini Copper Lamp Workshop | SIT Alumni Leisure Network
20-21 October 2021

At the workshop led by Mr Poh Wenxiang from workshop café Make Your Own, 55 alumni were provided with the materials needed to build their very own bespoke copper lamp. Participants could also unleash their creativity to decorate the wooden base of the lamp as they liked it.

“The mini copper lamp workshop was a unique experience which we don’t get to try every day. It was satisfying to see the end product of your work once you have completed the piece, especially when it lit up!” said Aeronautical Engineering alumnus Mr Karthigesan Murukan.

BodyCombat | SIT Alumni Sports Network
30 October 2021

BodyCombat draws on martial arts moves and is a non-contact workout which does not require a martial arts background to follow. Led by Ms Jasmine Tan from JR Fitness, the workout is suitable for people of all ages and fitness levels. Participants were guided through dynamic moves which utilised every part of their body, and challenged to keep their energy up through the hour-long session while jamming to EDM music.

“Online classes help add variety to my usual daily exercise, and I thought this was a good chance to try something new,” said Computer Science and Game Design alumnus Mr Hariz Yet, who was trying out BodyCombat for the first time.



Acrylic Pour Workshop | SIT Alumni Leisure Network
10-11 November 2021

54 SITizens tried their hands at creating a world of vibrant colours at the Acrylic Pour Workshop facilitated by Zee from Epic Workshops. They were guided through mixing the paint and the

various techniques to pour and spread the paint in order to create different patterns. Paint consistency is essential for a good flow of the paint mixture on the canvas, hence the alumni had to make sure that their paint mixture was a liquid honey consistency.



“I’m glad that the Alumni Leisure Network organises such art workshops; it gave me a very good and therapeutic break from my hectic work. It’s a pity we had to do this online due to COVID-19, if not it’ll definitely uplift the experience further.”

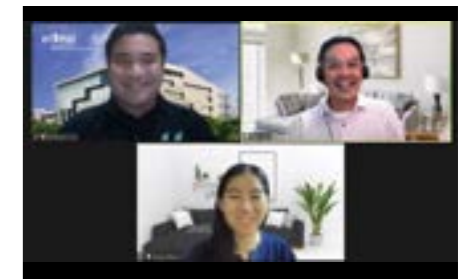
Mr Ivan Liew
Mechanical Design
Engineering alumnus



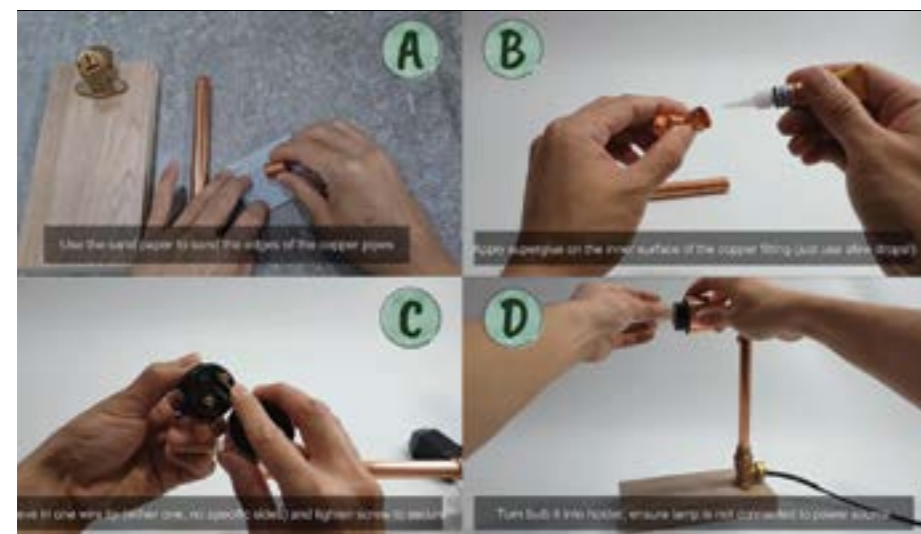
Upping Your Elevator Pitch Workshop | SIT Alumni Career Network
17 November 2021

Organised in collaboration with e2i (Employment and Employability Institute) and North West Community Development Council (CDC), the workshop brought 42 participants through an informative session on boosting their personal brand, crafting an elevator pitch, and discovering opportunities through networking. During the engaging Question & Answer Session, SITizens consulted the career coaches on various queries related to professional development.

Aeronautical Engineering graduate Mr Ong Yu Shen rose to the challenge to craft an elevator pitch during the session. “I believed I could only benefit from this workshop if I stepped out of my comfort zone to try. The coach was patient and highlighted my personal brand which I was not even aware of to begin with!”



Participants were taken step by step through preparing their materials (A), assembling the copper pieces (B), wiring (C), and finally attaching the light bulb (D)!



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