

2021 Annual Review

SUNWAY
UNIVERSITY



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President's PREFACE ►►

I'm very pleased to introduce the annual report 2021 on Sunway University's achievements. Universities are forever young by definition, but this was a special year because the University turned 10 years old.

The year was again largely dominated by the COVID-19 pandemic, but we were able to strike a good balance between safety for our students and staff and enabling them to make progress in their studies and their research. I'm particularly proud that we could accommodate students without proper internet connections at home to study on campus. I'm also proud of the support that our student services and other staff provided to students with mental and financial issues.

One of the most amazing features of the year has been the number of online conferences, webinars and media appearances our staff has managed to achieve in 2021.

Our student recruitment numbers held up for the second year, despite the inability for international students to travel to Malaysia, and the overall number of students went up by 3%.

We introduced nine new programmes in 2021, including our first engineering programme and several new master's and PhD programmes. We also received approval for eight new programmes for 2022, including several online master programmes and an additional engineering programme.

The number of 2021 publications in Scopus went up by 28% to 882 and, perhaps more importantly, the quality of these publications as measured by citations per paper in Web of Science, as well as Scopus was in the top four of all universities in Malaysia. The amount of external grants awarded to us, increased by more than 100% over that in 2020 and about 25% of this was industry related.

We made good progress again in the Quacquarelli Symonds (QS) World University Rankings, rising from the #701-750 band to the #651-700 band globally and from #172 to #121 in Asia region. Our highest ranked subject in QS Global was #401-450 in Business and Management studies. In the Times Higher Education Impact Rankings 2021, we ranked in the top 200 for SDG11, Sustainable Cities and Communities.

Sustainability is key to Sunway Berhad, Sunway City, Sunway Education Group and Sunway University. In 2021 we established the Sunway Centre for Planetary Health at Sunway University under the leadership of Professor Tan Sri Dr Jemilah Mahmood. We also opened the UN-SDSN Kuala Lumpur office for Asia at Sunway University, complementing the offices in New York and Paris. Most importantly, we will be introducing Planetary Health and Sustainable Development Goals as major subjects within the General

Studies offering for all Sunway University students starting from January 2022.

Several research projects commenced in 2021 with partners at Massachusetts Institute of Technology on CO2 Capture and Utilization, and with partners at the University of Cambridge on Infectious Diseases and on Radiobiology and various institutions in Singapore on Microbiomics.

Overall, Sunway University made significant steps towards becoming a top research-intensive private university in Southeast Asia.

I trust that you will find the details in this Annual Report of interest.

**Professor
Sibrandes Poppema**
President



Year in Review

HIGHLIGHTS AND ACHIEVEMENTS OF 2021

Despite the pandemic, the University progressed according to plan in 2021, except for the intended increase in numbers of students and international students. Although income suffered somewhat, the University managed to contain costs as well, resulting in a balanced budget.

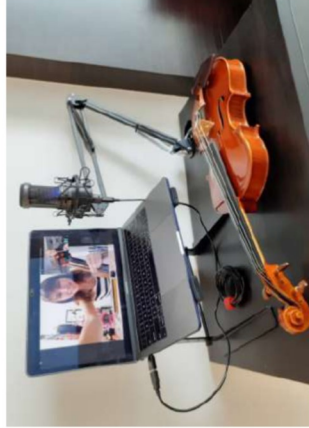
Virtual & Physical Graduation

Early in the year, we had our first ever online virtual graduation and in December we had our very first graduation with appropriate COVID-19 SOPs in the Amphitheatre in Sunway Lagoon.



Online Teaching & Learning

The transition to online teaching and learning that was implemented in 2020, was stabilised in 2021 and towards the end of the year, we were able to start thinking about what part of the online components to keep. The forced transition to online teaching has been a blessing in disguise. Large group lectures turned out to be better served online than face-to-face because students were able to watch lecture recordings in their preferred timeslots, and hear them multiple times for better understanding and discuss them with their classmates. In this way, one of the conditions of the flipped classroom, namely students that come prepared to class for questions and discussions, was achieved.



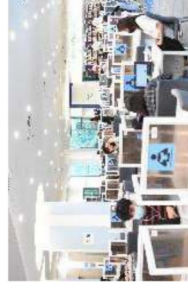
New Programmes

In 2021, nine new programmes were introduced, including three bachelor's, two post basic certificates, two master's, and two PhD programmes.



Pandemic SOPs on Campus

A large number of study places in the library and on campus has served us very well. Students were able to study with appropriate distancing combined with other pandemic SOPs which resulted in zero transmissions of the virus on campus. Students were able to study online as well as attend practical sessions, lab classes, and face-to-face discussions in a truly hybrid fashion. Another important development has been to make our education more holistic. This includes imparting the right values and mindset in addition to knowledge as well as digital and communication skills.



ODL-MQA and Keypath

In 2021 we received Open and Distance Learning (ODL) accreditation from MQA, and we started our first Online master's degree in Business Administration (MBA) and master's in Data Science with Keypath Australia. The Master in Sustainable Development Management, offered by the Jeffrey Sachs Center on Sustainable Development was also approved for delivery online.



New Programmes with Lancaster

In consultation with Lancaster University, we designed a six-months bridging programme online that will enable international students from selected countries to achieve the qualifications necessary for being eligible for the Sunway and Lancaster degree programmes.



► Five Research Clusters

To increase the impact of our research, several initiatives were implemented. First, five interdisciplinary research clusters were funded on Sunway Material Smart Science and Engineering, ElastiCities, Sustainable Business, Healthy Ageing & Well-being, and Sunway DataXSight. These will help to make our research more relevant and more visible. In addition, several collaborations were initiated with prominent partners, including Future Cities with Lancaster University, Infectious Diseases with University of Cambridge, Global Health with Harvard University, Microbiomics with NNI and National University of Singapore, and CO2 Capture & Utilization with Massachusetts Institute of Technology. We also established 11 new networks with partners in ASEAN countries to promote joint conferences, projects, and publications. Sunway University aims to act as a gateway for these foreign institutions into ASEAN and for ASEAN institutions to connect with western top researchers.



► Sunway Centre for Planetary Health

The Sunway Centre for Planetary Health (SCPH) was established in August 2021, led by Professor Tan Sri Dr Jemilah Mahmood and Dr Renzo Guinto, in response to the grand challenges affecting humanity and the planet's collective health. SCPH has since had many interactions through webinars and publications with other institutions, government agencies, private sector, and the public. This makes Sunway University the first Planetary Health-oriented university in the world. Through research, advocacy, policy influencing and engagement, SCPH's goals are to share knowledge, create solutions, and collaborate with a wide range of stakeholders to effect lasting systemic change towards advancing the planetary health agenda in Asia and the Pacific.



► SU-UKM Pandemic Centre

In 2021, Universiti Kebangsaan Malaysia and Sunway University decided on the establishment of a Pandemics



Centre as part of strategic collaboration. The five key pillars of the Pandemics Centre will be Precision Health, Digital Health, Smart Technology, Behavioural Analytics, and Pandemics. Detailed research plans have been developed between researchers of both institutions.

► Medical School



Given the shortage of medical specialists in Malaysia, we decided in consultation with the Ministries of Health and Higher Education to first start a postgraduate Medical School to train medical specialists before embarking on our undergraduate Medical School. The COVID-19 pandemic also made clear that the world needs more public health specialists with a focus on Global and Planetary Health and therefore we will initiate a Master's programme in Public Health.

► SDG Impact Initiative

To coordinate and to make our efforts more visible, we brought together the Sunway University SDG Impact Initiative, involving the PVC Research Engagement & Impact Office, Sustainable Development Solutions Network Malaysia (SDSN), Jeffrey Sachs Centre on Sustainable Development, Research Services and the Planning and Corporate Development Office core working group. The SDG Impact Initiative will formulate an SDG framework for Impact Reporting for the University, record all SDG initiatives in a repository and provide input into the SDG Impact website. The first yearly SDG Impact Report for the University has been produced and shows an impressive array of achievements in all SDG's. The report will also inform future research-led teaching and learning at Sunway University.



► IGSC - 10-10 MySTIE - Science Outlook 2020

Sunway University also established the Institute for Global Strategy and Competitiveness, directed by Professor Pervaiz Ahmed and Professor Mahendhiran Nair. The Institute is involved in research and consulting with several ministries and industries. A major achievement of the individuals in the institute was the production of the Science Outlook 2020 and the 10-10 MySTIE methodology and report with the Academy of Sciences Malaysia. The 10-10 MySTIE report has served as a significant input in the 12th Malaysia Plan. Likewise, the Sunway Centre for Planetary Health has provided significant input regarding the planetary health and biodiversity aspects laid out in the 12th Malaysia Plan.



University

GOVERNANCE

► Board of Directors

Tan Sri Dato' Seri Dr Jeffrey Cheah AO
(Chairman)
Tan Sri Dato' (Dr) Chew Chee Kin
Tan Sri Dato' Dr Ramon V. Navaratnam
Tan Sri Datuk Seri Razman M Hashim
Tan Sri Dato' Seri Dr Ranjit Singh s/o
Ajit Singh
Professor Tan Sri Dato' Dr Lin See Yan
Professor Dato' Dr Woo Wing Thy

Dato' Sri Idris Jala
Dato' Dr Lee Weng Keng
Professor Elizabeth Lee
Professor Graeme Wilkinson
Professor Jarlath Ronayne AM
Professor Sibrandes Poppema
Mr Philip Yeo
Ms Sarena Cheah (Alternate Director to
Tan Sri Dato' Seri Dr Jeffrey Cheah, AO)

► Academic Senate

Professor Graeme Wilkinson (Chair)
Professor Abhimanyu Veerakumarasivam
Professor Alvin Ng Lai Oon
Professor Angela Amphawan
Professor Bradley Freeman
Professor Chaiporn Vithessonthi
Professor Crispin Bates
Professor Datin Dr Chia Yook Chin
Professor David Bradley
Professor Don Bowyer
Professor Edward Tiekink
Professor Elizabeth Lee
Professor George John Hess Jr
Professor Glenda Crosling
Professor Gopalasamy Reuben Clements
Professor Hew Gill
Professor Ho Chee Kit
Professor Hwang Ha Jin
Professor Jarlath Ronayne
Professor Jeff Tan Kuan Onn
Professor Tan Sri Dr Jemilah Mahmood
Professor Khatiah Abdullah
Professor Lau Sian Lun
Professor Lee Chien Sing
Professor Leong Choon Heng
Professor Mahendhiran Nair
Professor Marcus Stephenson
Professor Matthew Sansom
Professor Mayeen Uddin Khandaker

Professor Michael Dent
Professor Mohamed Ariff Syed Mohamed
Professor Mohamed Kheiriddine Aroua
Professor Mohammad Khalid
Professor Patrick Siau Chi Yin
Professor Peh Suat Cheng
Professor Pervaiz Ahmed
Professor Peter Heard
Professor Perry Hobson
Professor Poh Chit Loo
Professor Pua Eng Chong
Professor Raymond McNamara
Professor Sabine-Salina Chaouche
Professor Saidur Rahman
Professor Serge Demidenko
Professor Shandre Mugan Thangavelu
Professor Santha Vaitthilingam
Professor Sibrandes Poppema
Professor Stephen Hall
Professor Steve Williams
Professor Susela Devi K Suppiah
Professor Teo Kok Lay
Professor Wong Chin Huat
Professor Wong Koi Nyen
Professor Dato' Dr Woo Wing Thy
Professor Yau Kok Lim
Professor Yeh Kim Leng
Professor Yuka Fujimoto
Ms Ng Beng Lean
Ms Wong Sook Jean

► By Invitation

Professor Andrew Abbott
Associate Professor Dr Cheah You Sum
Associate Professor Dr Kenneth Feinstein
Associate Professor Dr Lin Mei-Hua
Associate Professor Dr Mayco Santaella
Associate Professor Dr Sim Tze Ying
Dr Jane Teh Kimm Lii
Dr Kavita Reginald

Dr Paul Linus Andrews
Ms Chan Lay Guat
Ms Izah Isa
Ms Siti Fariza Mohd Dahlan
Ms Jynn Kok E-Lynn, undergraduate
student representative
Ms Perrez Olycen A. Oyato,
postgraduate student representative

► University Strategic Management Committee

Professor Sibrandes Poppema (Chair)
Professor Graeme Wilkinson (Co-Chair)
Professor Elizabeth Lee (Alternate Chair)

President
Vice-Chancellor
Chief Executive Officer, Sunway Education
Group

Professor Peter Heard
Professor Mahendhiran Nair

Provost
Pro-Vice-Chancellor for Research,
Engagement and Impact

Professor Matthew Sansom
Professor Abhimanyu Veerakumarasivam
Professor Don Bowyer
Professor Ho Chee Kit
Professor Marcus Stephenson

Pro-Vice-Chancellor for Education
Dean - School of Medical and Life Sciences
Dean - School of Arts
Dean - School of Mathematical Sciences
Dean - School of Hospitality and Service
Management

Professor Stephen Hall
Professor Steve Williams
Professor Serguei Demidenko

Dean - School of Interdisciplinary Studies
Dean - Sunway University Business School
Dean - School of Engineering and
Technology

Ms Ng Beng Lean
Ms Betty Lai
Ms Lee Siok Ping
Ms Lim Shui Chin

Group Registrar
Chief Resources Officer
Director - Student LIFE
Director - International Office and Special
Projects

Mr Lucas Tong
Mr Ng Kok Cheng
Dr Ooi Pei Boon
Mr Patrick McVeigh

Deputy Chief Financial Officer
Chief Financial Officer
Director - Special Projects
Director - Branding & Corporate
Communications

Ms Preeti Nair
Ms Siti Fariza Mohd Dahlan
Mr Tony Lee
Ms Wong Lei Lei

Director - Strategy and Planning
Director - University Services
Chief Information Officer
Director - Marketing & Customer Experience

Academic Developments

ACADEMIC ENHANCEMENT ▶▶

In 2021, the University experienced unprecedented growth in terms of providing extensive academic support through the Academic Enhancement Division which has been tasked to provide, continuous professional development opportunities for academic staff in the area of teaching, learning, assessment and research skill development. It does this by offering a range of programmes that meet the needs of academics, informed by formal surveys and feedback from programme participants which enables staff to continuously develop their knowledge and skills to maintain high quality academic practices which lead to high quality learning experiences for students. AED also offers the Peer Assisted Learning Programme (PALP) through which students have an opportunity to attend peer learning sessions that are facilitated by high achieving senior students who have been trained as peer leaders.

In 2020, AED successfully supported academic staff and the University as they pivoted to fully online teaching due to the Covid-19 pandemic.

The smooth transition and students' high satisfaction with their online learning experience are testimony to that success. In 2021, with teaching and learning remaining online for most of the year, AED's overall goal was to ensure that academic staff support was consistent, accessible and flexible. To this end, the AED OpenLearning platform was launched in July 2021. This platform hosted courses for Sunway University academic staff, including the redesigned academic staff induction programme. AED's one-stop resource centre on teaching, learning, assessment and supervision, or its acronym AEDTLAS, was also introduced on the same platform.

AED 2021 programmes focused significantly on supporting academic staff in developing more technical skills to increase their online teaching efficiency. This was necessary to ensure that students continued to thrive in their learning. AED also developed and implemented a strategy to support academic staff readiness for block teaching. The first module on rethinking the curriculum for block teaching was rolled out in July 2021 with more modules on block teaching to be offered early in 2022.



In total, AED offered more than 60 programmes for academic staff in 2021, 58% more than the previous year.

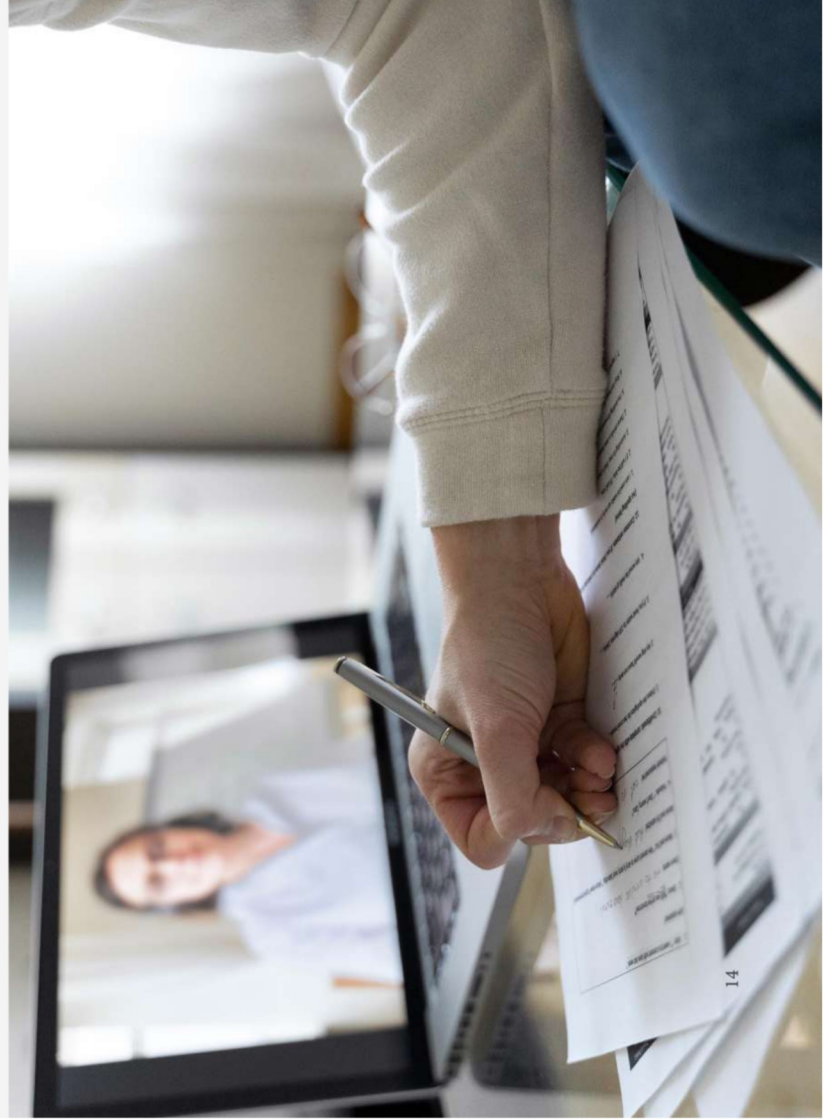
These programmes were attended by 95% of the University's academic staff, a 20% increase from 2020. Feedback from participants was very positive and provided a strong indication that AED's strategies for supporting staff were effective. This success would not have been possible without the support of the University's and the respective schools' management team and IT Services. AED associates – academic staff across the university who were appointed and played a role in supporting other academics – made a significant contribution to this achievement.

The Peer Assisted Learning Programme continued its second year of fully online peer learning support. Learning from its first-year experience, the programme was enhanced further to increase its efficiency. Changes were made to its structure to provide greater flexibility to peer leaders and their mentees in how they wanted their learning sessions to be managed, while at the same time systematically documenting these sessions for continuous quality improvements. On average, 63 peer learning sessions were offered each week of the semester, facilitated by 76 peer leaders. Consistent with previous years, mentees reported the programme to be valuable in helping them improve their mastery of the subject. Additional values they appreciated were the connection they made and maintained with their peers and mentors. In addition to that, they also improved their soft skills including leadership, problem-solving, time-management, interpersonal and presentation skills.

►► Educational Provision

Many new programmes were added to the University's offering during 2021.

Notably, a raft of new Open and Distance Learning (ODL) Master's programmes were approved, including Master in Public Policy, Master of Marketing, Master of Data Science, Master of Business Administration and Master in Sustainable Development Management. Developments in ODL provision have involved a new partnership with Keypath Education, who are assisting with expertise in this area and with delivery and recruitment. Bachelor of Electronic and Electrical Engineering with an Honours and a Post Basic Certificate in Perioperative Nursing further increased this impressive roster of programmes. An International Preparatory Programme (IPP) was developed, launching in January 2022, to enable students with qualifications not recognised by United Kingdom for entry into tertiary education, to obtain entry to programmes validated by Lancaster University. Finally, 35 Micro-Credential courses were approved in areas including Statistics, Sociology, English language, Economics, Sustainability and Public Policy.



►► Teaching and Learning

The pandemic continued to inform and direct many aspects of teaching and learning.

With a mix of government mandates guiding the University, it was a year that continued to emphasise online teaching but established a new focus on hybrid delivery with students attending in-class and online at the same time. Pedagogical approaches required ongoing reliance on technology enhanced learning, the flipped classroom, student-centred activity-based learning, and a mix of synchronous and asynchronous student learning time. Alternative assessment methods avoided crowded exam halls with the positive inclusion of more course and project-based assessments and open-book and take-away exams.

The year saw special attention paid to graduate employability, with Pro Vice-Chancellor (Education) Professor Matthew Sansom leading a working group on the topic. Involving members drawn from the University and Education Group, it developed 36 initiatives across eight strategy areas: curriculum, industry connections, alumni relations, internships, careers advice, social media, community involvement and internationalisation. A significant outcome has been to review the University governance structure for better inclusion and accountability of matters relating to employability, engagement and internationalisation. Changes included redefining the contribution of Associate Deans and the creation of new Associate Dean roles as well as new University sub- and standing committees.

All Departments and Schools completed extensive work to support introducing the new University-wide curriculum framework starting January 2024.



Research HIGHLIGHTS ▶▶

▶▶ Sunway University Research Clusters

The Research Clusters were established in October 2021 to strengthen Sunway University's research impact and outcomes that are strategic to the development of Malaysia and the global community. A key feature of the Research Clusters is to intensify fundamental and translational research output and outcomes by fostering multidisciplinary research and development activities at Sunway University. It is envisioned that the Research Clusters will foster strong research partnerships and collaborations with Sunway University's network partner universities, other institutions, industry and community organisations in Malaysia, the ASEAN region and across the globe – positioning Sunway University as a vibrant and dynamic research platform in the region undertaking high-quality research. The five (5) Research Clusters are:

• **Sunway Material Smart Science and Engineering (SMS2E)**

SMS2E Research Cluster focuses on impact-driven multidisciplinary and integrative research in materials science and engineering towards tackling global grand challenges in food waste, plastic waste and low carbon energy. SMS2E hopes to provide solutions towards a 'Zero Waste Footprint' as part of their contribution towards the development of a low carbon energy society for a healthier planet. SMS2E has a broad vision to contribute toward academic, environmental, societal, industrial and policy impact on Malaysia and the region.

• **ElastiCities**

ElastiCities Research Cluster aims at playing a role in the Southeast Asian region by becoming a research think tank on urban health and well-being. ElastiCities focuses on sustainable human-scale spaces to work, study or play (either physical or virtual). It looks at the cities of the past and present to assess the challenges facing populations, to propose multidisciplinary solutions to improve the urban environment and the living conditions in the cities of tomorrow.

• **Sustainable Business**

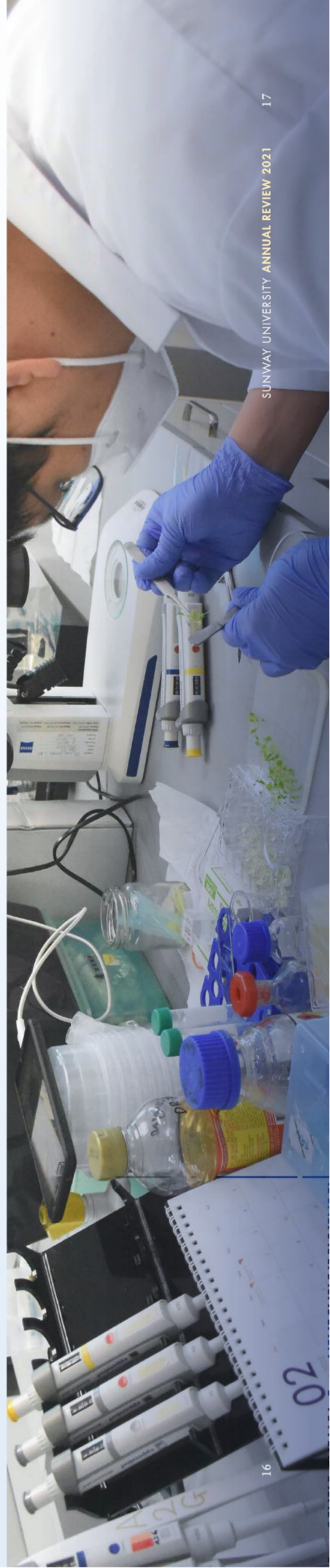
Sustainable Business Research Cluster aims to push the frontiers of knowledge on creating sustainable businesses that empower all communities. Sustainable Business offers a multidisciplinary business research platform where relevant researchers, industry players and practitioners from ASEAN, collaborate with researchers from more advanced economies. By encouraging research collaboration from the Global South and the Global North to foster sustainable business practices, this cluster prioritises continuous prosperity for people, businesses and the planet within the ASEAN region.

• **Healthy Ageing & Well-being**

Healthy Ageing & Well-being Research Cluster focuses on fostering multidisciplinary research in the promotion of healthy lifespan development in Southeast Asian communities. Research activities supported by Healthy Ageing & Well-being will focus on a holistic approach to health and well-being that encompasses physiological, psychological and socioeconomic parameters. Specific areas of interest will include, without being limited to, the well-being of older adults in Malaysia, the interplay between socioeconomic conditions and mental health, and strategies to build resilience against future pandemics. The urban environment of Sunway city and surrounding areas will be our main field of activity as a representative model of urban SEA communities.

• **Sunway DataXSight**

Sunway DataXSight Research Cluster aims to address impactful socioeconomic challenges in solving problems to achieve Planetary Health and the United Nations Sustainable Development Goals by using data-centric and technological approaches and solutions. Sunway DataXSight carries out cross-disciplinary research and development activities to enable stakeholders to make better decisions as well as understand the factors and reasons behind their decisions and consequences. A common goal is to enable the wider society to achieve shared prosperity in the pillars identified by the researchers in the research cluster through data science and data analytics.

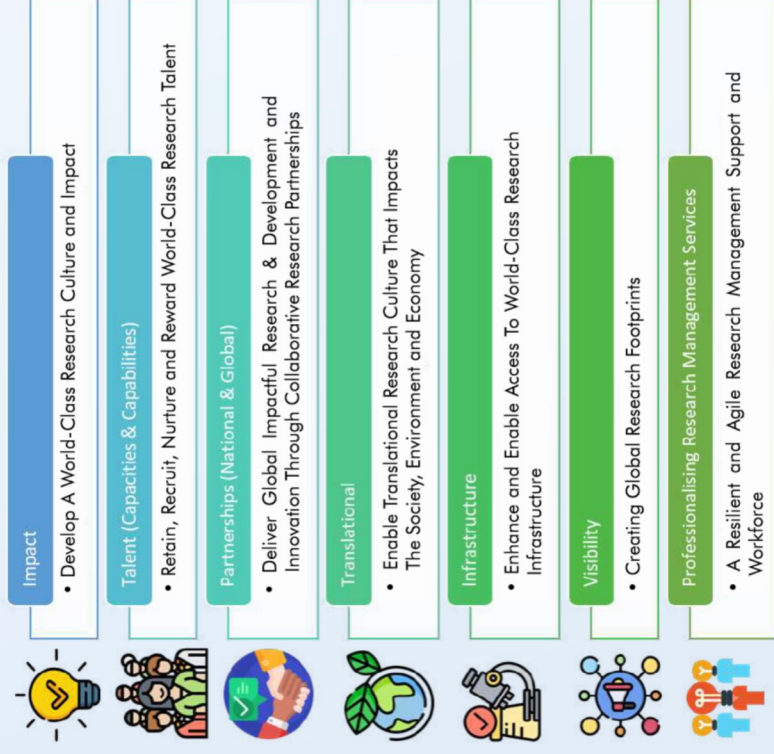


►► Institute for Global Strategy and Competitiveness

The Institute for Global Strategy and Competitiveness (IGSC) focuses on research and development activities that contribute to the strategic transformation and competitiveness of government, industries and society towards nation-building in the context of rapidly changing global dynamics. The Institute takes a multidisciplinary lens to address the grand challenges impacting local and global communities. It works closely with different faculties and centres within the University and international partners to drive transformative change. The IGSC is a node for research and policy development for government, industry and society in the region.

►► Research Strategy 2022-2025

Through the implementation of the Research Strategy 2022-2025, Sunway University aims to nurture world-class talents and devote ourselves to the discovery, advancement, transmission and application of knowledge that meets the needs of our society and global community. The Research Strategy focuses strategically on the following key goals:



►► Sunway International Research Networks

The Sunway International Research Networks were established to foster strategic international collaboration through existing and new research partnerships in addressing grand challenges in the ASEAN region. The Sunway International Research Networks also aim to strengthen engagements with other academic institutions and researchers including key industry stakeholders while extending and expanding the visibility of Sunway University's footprint in the region. The following are the eight (8) Sunway International Research Networks:

- Virtual Augmented Reality Research Network (VARN)
- EuroAsia Carbon Dioxide Capture and Utilisation Network (EACO2CUNet)
- Asian Tourism and Hospitality Research Network
- Applied Physics and Radiation Technologies Research Network
- Advanced NanoMaterials for Clean Energy, Water and Sensor Technology Network
- Phase Change Materials Research Network
- Cyber Security Analytics Maturity Research Network
- South Asia in the Indian Ocean: Culture and Labour Migration Research Network

External Research Grants

AWARDED ►►

Listed in the order of quantum received.

PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH	FUNDING BODY	AMOUNT (RM)
Professor Lau Sian Lun	Cloud-Based Intelligent Measurement, Monitoring and Analytics System in Support of Radiation Medicine	Ministry of Science, Technology and Innovation Malaysia	1,006,400
Professor Agamutu Pariatamby	Risks and Solutions: Marine Plastics In Southeast Asia — RaSP-SEA	Exeter University	578,556
Professor Mahendhiran Sanggaran Nair	Roadmap for National Agenda on Water Transformation 2040 Study - Water as An Economic Sector	Academy of Science Malaysia	578,032
Professor Abhimanyu Veerakumarasivam	Generating Knowledge and Building Networks for Science Advice in Emergencies	International Science Council	529,082
Dr Kavita Reginald	Elucidation on A Non-Anaphylactic Hypoallergen Vaccine of Sylla Paramosin Arginine Kinase with Reduced Ige Reactivity but Retained T-Cell Reactivity	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	146,750
Professor Teo Kok Lay	A Novel Computational Study of Constrained Optimal Problems with Discrete Valued Control	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	135,000
Dr Lim Hui Xuan	Development of Novel Tetravalent Peptide-Based Candidate Dengue Vaccine Encapsulated in Poly-Lactic-Co-Glycolic Acid Nanoparticles to Confer Protection Against All Four Dengue Serotypes	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	119,700
Professor Glenda Marian Crosling	Creating an Online Repository of Information on Digital Skills and Competences in TVET and Preparing Articles on Key Debate	The United Nations Educational, Scientific and Cultural Organization	109,020
Professor Gopalasamy Reuben Clements	Community-based Research to Understand Illegal Trafficking of The Malayan Tiger	Panthera Wild Cat Conservation Malaysia Sdn Bhd	100,276

PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH	FUNDING BODY	AMOUNT (RM)
Dr Mohammad Tahir	Optimizing Energy Efficiency In 5G Ultra-Dense Networks Using Distributed and Cooperative Learning Model	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	88,300
Dr Koay Kian Yeik	Developing A Model of Cyberloafing Socially Responsible Human Resource Management (HRM) Practices, And Extra Role Performance for Knowledge Workers in The Digital Economy	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	83,800
Dr Catherine Lee Cheng Ean	An Integration of Task-Technology Fit (TTF) And Unified Theory of Acceptance and Use of Technology (UTAUT) In Malaysian Higher Education Institutions During Pandemic: Policy Responses and Implications for Improved Online Teaching and Learning	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	75,000
Professor Agamutu Pariatamby	Policies Review and Assessment for A Mandatory EPR Law in Malaysia	World Wildlife Federation	69,400
Associate Professor Dr Sim Tze Ying	Development of A Framework for Unplugged Computational Thinking Activate in Improving the Interest and Skills in Programming	Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia	55,000
Associate Professor Dr Felicia Chung Fei Lei	Epigenetic Marks in Breast Cancer Research: Targeting Cancer Specific Chromatin Accessibility	International Agency for Research on Cancer	50,135
Professor Wong Chin Huat	Top-Up Women-Only Additional Seats (TWOAS)	Penang Women's Development Corporation Sdn Bhd	46,800
Professor Leong Yuen Yoong	ASEAN Green Future	Sustainable Development Solutions Network	30,300
Dr Kavita Reginald	Bridging Gaps with Effective Science Communication	Asia Pacific Economic Cooperation	7,800

Internal Research Grants

AWARDED ▶▶

Listed in the order of quantum received.

PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH	DEPARTMENT / CENTRE	AMOUNT (RM)
Dr Wo Su Woan	Development of Parent's Attitude Towards Inclusive Education Scale in Malaysia	Psychology	13,245
Dr Lee Ai-Suan	Can You Recognise Me with A Mask? Examining the Effect of Face Masks on Face and Emotion Recognition	Psychology	11,100
Dr Chin Teck Min	Predicting the Adoption of Big Data Cybersecurity Analytics for SME Organisations	Computing and Information Systems	10,000
Dr Lingenthiran Samylingam	Efficiency Improvement of Nitrate Based Ternary Molten Salt's Thermal Stability and Lower Melting Point Induced with Emerging Nanomaterial	Nano-Materials and Energy Technology	10,000
Dr Muhammed Basheer Jasser	An Optimized Dragonfly Algorithm for Enhanced Effectiveness and Efficiency in Low Exploitation Problem	Computing and Information Systems	10,000
Siti 'Atikah Rusli	The Motivations of Umrah Travel: A study of Umrah DIY Traveller	Hospitality and Service Management	10,000
Dr Fiona Wong E Chiong	Promoting and Preserving Traditional Craftsmanship in Malaysia: Using Craft as Alternative to Synthetic Material	Art, Design and Media	7,000
Dr Abdullah Ah Mand	Investigation on Herd Behaviour Of Investors and Implication Of Crises; Fresh Evidences From Financial Futures, Commodities, Precious Metals and Energy Sectors	Economics and Finance	6,000
Manjeet Kaur Harnek Singh	The Impact of Health Sector on Malaysian Economy: An Input-Output Analysis	Economics and Finance	6,000
Dr Mikkay Wong Ei Leen	The Implementation of Learning Analytics in Higher Education: Academics Expectation	Business Analytics	5,000
Dr Simran Kaur Nvinderjit Singh	The Sacralization and De-sacralization of a Tourism Destination: An Exploratory Investigation	Marketing	5,000



School HIGHLIGHTS

	ARTS	BUSINESS	ENGINEERING & TECHNOLOGY	HOSPITALITY & SERVICE MANAGEMENT	MATHEMATICAL SCIENCES	MEDICAL AND LIFE SCIENCES	INTERDISCIPLINARY STUDIES
EMPLOYED BY GRADUATION ¹	89%	88%	92%	89%	92%	86%	N/A
GRADUATES EARNING ABOVE RM5000 ²	14%	27%	60%	18%	42%	14%	N/A
NEW STUDENTS	396	1,207	492	193	174	336	165
TOTAL ENROLMENT	1,049	3,194	1,355	705	554	979	318
INTERNATIONAL STUDENTS	20%	11%	13%	26%	6%	14%	15%
TOTAL STAFF ³							
AC: ACADEMIC	45 AC	91 AC	43 AC	30 AC	19 AC	66 AC	62 AC
AD: ADMINISTRATIVE	13 AD	16 AD	15 AD	7 AD	4 AD	16 AD	27 AD
INT: INTERNATIONAL STAFF	16% INT	21% INT	26% INT	11% INT	0% INT	8% INT	8% INT
INTERNAL GRANTS RECEIVED ⁴	RM 7,000	RM 22,000	RM 24,300	RM 10,000	-	RM 30,000	-
EXTERNAL GRANTS RECEIVED ⁵	RM 75,000	RM 83,800	RM 853,500	-	RM 135,000	RM 1,094,700	RM 989,400
GRADUATES (ALL)	305	849	257	318	158	257	58
CLASS I & II(I) (BACHELOR'S ONLY)	80%	45%	69%	54%	43%	55%	N/A
NEW PROGRAMMES LAUNCHED	(1) Bachelor of Arts (Honours) in Advertising and Branding	(1) Bachelor (Honours) in Finance (2) Master of Business Analytics (3) Master of Business Administration	(1) Bachelor of Electronic and Electrical Engineering with Honours (2) Doctor of Philosophy in Sustainability Science and Technology			(1) Post Basic Certificate in Intensive Care Nursing (2) Post Basic Certificate in Perioperative Nursing	(1) Master in Public Policy (2) Doctor of Philosophy in Sustainable Development

¹ Based on MOHE Graduates Tracer study 2021 (Number of Bachelor's & Diploma graduates who successfully secured employment at time of survey, divided by total respondents who were available for work)

² Based on MOHE Graduates Tracer study 2021 (Number of Bachelor's graduates earning RM 3000 and above, divided by Number of Bachelor's graduates who are employed and who provided income information)

³ Based on headcount of full-time staff

⁴ Grant amount rounded up to the nearest RM 100

⁵ Grant amount rounded up to the nearest RM 100

Student Experience

VIRTUAL EXCHANGE



Embracing the COVID-19 situation with arms wide open, the University went full steam ahead with virtual programmes to engage with students, partner universities and external organisations around the globe.

The first of its kind, two virtual exchange programmes - "Virtual Intercultural Programme (VIP)" and "International Business Exchange (IBX)" - were organised to promote collaborations, peer-to-peer engagements and cultural exchange opportunities between two universities and countries.

"Lancaster: The Virtual Experience" in collaboration with Lancaster University, brought the Chancellors Scholars on a virtual experience through United Kingdom's gastronomy, education, lifestyle, history and others. The programme aimed to narrate the multidimensions of British culture and forge closer ties between students and staff of both educational institutions.

Ensuring that the Sunway international cultures and ethnic groups were represented and supported, the Global Culture Café expanded to invite more Sunway students to showcase their local culture with interactive talks and workshops. Meanwhile, the five-day

virtual programme for international students to help them adapt and feel more at home in a new educational environment and country evolved over the year from the "Sunway: The Virtual Experience" in 2020 to "First Steps: Sunway & Malaysia" in 2021. When students could finally fly into Malaysia, buddies from the programme also organised meet ups for campus tours and catch ups.

The Sunway community was also invited to hear from the Ambassador of Italy to Malaysia, H.E. Cristiano Maggipinto on Italian culture; from Sunway University staff on their experience in Germany. Sunway University's staff, as well as students, also experienced a live virtual tour of the streets of Hong Kong among others.

These programmes helped the students experience the cultures of the world and create meaningful connections with different nationalities all from their own homes.

Virtual Cultural Exchange Programmes with Partner Universities

DATE	PROGRAMME	UNIVERSITY	COUNTRY
22 - 24 March	Virtual Intercultural Programme	Tanjungpura University	Indonesia
27 - 29 May	Virtual Intercultural Programme	Petra Christian University	Indonesia
9 - 11 June	International Business Exchange #1	Ton Duc Thang University	Vietnam
24 June	Virtual Intercultural Project: Conversation Buddies	Reitaku University	Japan
29 September - 1 October	International Business Exchange #2	Ton Duc Thang University	Vietnam
27 September & 4 October	Virtual Intercultural Programme	Feng Chia University	Taiwan
17 & 24 October	Virtual Intercultural Programme	Western Michigan University	United States of America
10 - 12 November	Virtual Intercultural Programme	Lancaster University	United Kingdom

Student Experience

STUDENT BAROMETER ▶▶

The Student Barometer™ is a global benchmark for student experience administered by i-graduate, enabling tracking and comparison of student satisfaction in decision-making, expectations, perceptions and intentions of students from application to graduation.

In 2021, the Student Barometer wave tracked feedback from 105K students from 72 institutions globally, which involved 56K students from 16 institutions in Asia, and 25K students from seven institutions in Malaysia. According to the survey, 92.5% of Sunway students reported satisfaction with the overall aspects of their education experience ("Overall Satisfaction") and 90.3% satisfied with their learning experience ("Learning Average").

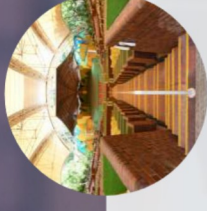
Sunway was ranked number one for "Career Support" with 92.3% satisfaction compared to the average satisfaction of 77.6% globally.

Sunway was also benchmarked as among the leading institutions in Asia and Malaysia in several categories:



▶ #1 IN ASIA

- Arrival - Welcome
- Condition of Accommodation on Arrival
- Campus Buildings
- Campus Environment
- Postgraduate Support
- Student Council
- Career Support



▶ #1 IN MALAYSIA

- ARRIVAL**
 - Condition of Accommodation on Arrival
- FACILITIES**
 - Learning Technology
- LIVING/DAY TO DAY LIFE**
 - Internet Access on Campus
 - Feeling Safe and Secure on Campus
 - Eco-friendly Attitude
 - Campus Buildings
 - Campus Environment
 - The Surroundings Outside the Institution
 - The Transport Links to Other Places
 - Transport between University Locations
 - Visa Advice
- EMPLOYMENT/CAREER SUPPORT**
 - Career Support
- COVID-19 RESPONSE**
 - COVID-19 Communication Satisfaction
 - Overall COVID-19 Response
 - COVID-19 Online Learning Satisfaction

Scholarly ACTIVITIES

Jeffrey Cheah Distinguished Speaker Series

DATE	PROGRAMME	TOPIC
30 November	Professor Patrick Chinnery FRCP FRCPath FMedSci Jeffrey Cheah Professorial Fellow, Gonville and Caius College Professor of Neurology and Head of the Department of Clinical Neurosciences University of Cambridge	Mitigating Mitochondrial Mutational Meltdown: Or How to Prevent the 'Mother's Curse'



Jeffrey Cheah Institute on Southeast Asia

DATE	TOPIC	EVENT TYPE
14 June	Navigating Malaysia's Policy Challenges of the COVID-19 Pandemic and the High-Income Hurdle	Webinar (in collaboration with Malaysian Economic Association)
24 September	Pandemic Recovery and East Asian Economic Resilience	Webinar (in collaboration with Malaysian Economic Association)

Jeffrey Sachs Centre on Sustainable Development

DATE	TOPIC	EVENT TYPE
3 April	Launch of Shrink that BigFoot Project by Rotary Club of Bukit Kiara Sunrise (RCBKS)	Outreach Programme (in collaboration with Rotary Club of Bukit Kiara Sunrise (RCBKS))
6 April	Education for Sustainable Development: The Role of Higher Education	Side event at the UN Youth Forum
17 June	Building Back Better: Eradicating Poverty and Promoting Inclusive Growth in Response to COVID-19	SDG Webinar Series 1 - SDG 1 (in collaboration with EPU) Sunrise (RCBKS))
7 July	Should Parliament be a Full-time Institution?	SDG Webinar Series 2 - SDG 16
14 July	Political Stability Despite Minority Governments: The New Zealand Experience	SDG Webinar Series 3 - SDG 16
17 August	SDG Webinar Series: Spurring Malaysia's Economic Recovery to End Hunger and Malnutrition	SDG Webinar Series 4 - SDG 2 (in collaboration with EPU)
26 August	A Roadmap for Parliamentary Reform for and Beyond the Pandemic	Special Lecture - SDG 16
13 September	Beyond COVID-19: Fighting Infectious Diseases	Symposium - SDG 3 (in collaboration with Embassy of the People's Republic of China in Malaysia)
16 September	MOU – A Pathway to Transformation and Stability?	SDG Webinar Series 5 - SDG 16 (in collaboration with ASLI)
11 October	Change of Tides? – Germany's 2021 Election Explained	SDG Webinar Series 6 - SDG 16
15 October	Road to Glasgow - Kunming: What to Expect from the 26th UNFCCC and the 15th CBD COP Topic: Combating Climate Change and Biodiversity Loss in Malaysia	SDG Webinar Series 7 - SDG 13 (in collaboration with WWF and EU Delegation to Malaysia)
21 October - 8 November	ASEAN Future Leaders SDG Workshop Topics: • Introduction to SDGs and Climate Change • What happens past the carbon threshold? • Forests and Biodiversity • Agriculture and SDGs in the Context of Climate Change	5 Workshops (in collaboration with undergraduate students from 8 ASEAN nations)
11 November	Enhancing The Healthcare Delivery System in The Twelfth Plan Through a Whole-Of-Nation Approach	SDG Webinar Series 8 - SDG 3 (in collaboration with EPU)

International COLLABORATIONS

►► [Sunway-Cambridge Collaboration](#)

The Cambridge-Sunway collaboration originated in October 2017, building on a partnership previously established through the Jeffrey Cheah Professorial Fellowships at Gonville and Caius College. The parties to the present collaboration agreement are the University of Cambridge, the Jeffrey Cheah Foundation and Sunway Medical Centre. This strategic partnership focuses on capacity building in three key areas (Clinical Trials, Visiting Leaders and Education and Training) with a fourth significant strand of activity (RCP-Sunway- Cambridge Seminars) which has developed in partnership with the Royal College of Physicians (London) (RCP).

In 2021, during its fourth year of operation, activity within the collaboration continued predominantly in virtual mode due to the ongoing COVID-19 pandemic. With Professor Sibrandes Poppema as Chair, the steering committee met twice with Dr Ang Kong Hui, Chief Operating Officer (Medical Education and Research), Sunway Healthcare Group. The sub-committees representing the four programmes each met three times with Sunway membership adjusting slightly to reflect the priority themes within each programme.

Collaborative highlights included a successful joint webinar on emergency medicine in May and, in June, the steering committee approved funding for a joint research project entitled *Low Dose Radiation and Cellular Response* with Professor Peh Suet Cheng, Professor David Bradley (Sunway University) and Dr David Fernandez-Antoran (University of Cambridge) as Principal Investigators. The Cambridge- Sunway COVID-19 sequencing project, *Whole Genomic Sequencing and Phylogenetic Analysis of COVID-19 Cases from Malaysia*, successfully concluded with the submission of a joint manuscript. During the year, a further six RCP-Sunway-Cambridge webinars were attended by global audiences of clinical trainees, specialists and general physicians.

►► [Progress to Date](#)

Clinical Trials Programme

During 2021, the SunMed Clinical Research Centre (CRC) initiated 18 new industry-sponsored Phase two and Phase three clinical trials in a range of therapeutic areas including (haem-)oncology, infectious disease, immunology, psychiatry and nephrology. In addition, 13 Investigator-Initiated studies commenced in palliative care, respiratory, robotics and public health amongst other areas. SunMed have advised that the new CRC facility is now expected to open during 2024. The SunMed CRC team will continue to liaise with the Cambridge Clinical Trials Unit (CTU) team in the interim.

Visiting Leaders Programme

Within the Visiting Leaders (VL) sub-committee, discussions have focused on three priority areas as identified by Sunway: haem-oncology and trauma and orthopaedics (both working with the Training and Education programme) plus microbiology and virology. The emphasis has been on connecting key academics, clinicians and researchers to develop collaborative research studies and capacity building in these areas.

Education and Training Programme

The focus of this programme continues to be on the provision of training/education in postgraduate medicine, in specialist postgraduate programmes and in non-medical postgraduate courses leading to, for example, MPhil and/or PhD qualifications. Working with key contacts at Sunway and Cambridge, priority themes remain in vitro fertilisation/fertility and emergency medicine as well as working alongside the VL programme to support education and training activity for haem-oncology and trauma and orthopaedics. In November, Cambridge hosted a virtual conference 'Cambridge Trauma Futures 2021 – Learn from the Best' to which SunMed emergency physicians and nursing staff were invited as an extension of continuing education in this area.

RCP-Sunway-Cambridge-Seminars

In response to ongoing travel restrictions during 2021, the seminar sub-committee maintained an online format and has now delivered nine very successful webinars between October 2020 and November 2021. The underlying emphasis has continued to be on topics of relevance to the Malaysian population with a target audience of general physicians, specialists and postgraduate trainees. Webinar topics covered in 2021 included a spring series of three webinars themed around medical emergencies looking at neurology, diabetes and endocrinology and rheumatology. The autumn series focused on gastroenterology, infectious disease and renal medicine.



►► Jeffrey Cheah Professorial Fellows

Professor Patrick Chinnery

Professor Patrick Chinnery FMedSci has been appointed as Jeffrey Cheah Professorial Fellow at Gonville and Caius College, University of Cambridge. Professor Chinnery is a noted neurologist and clinician scientist. He is Professor of Neurology in the University of Cambridge, Head of the Department of Clinical Neurosciences and Principal Research Fellow in the MRC Mitochondrial Biology Unit in the Cambridge School of Clinical Sciences.

Professor Chinnery delivered a Jeffrey Cheah Distinguished Speakers Series Lecture on November 30, 2021 on the topic "Mitigating Mitochondrial Mutational Meltdown: Or How to Prevent the 'Mother's Curse'"

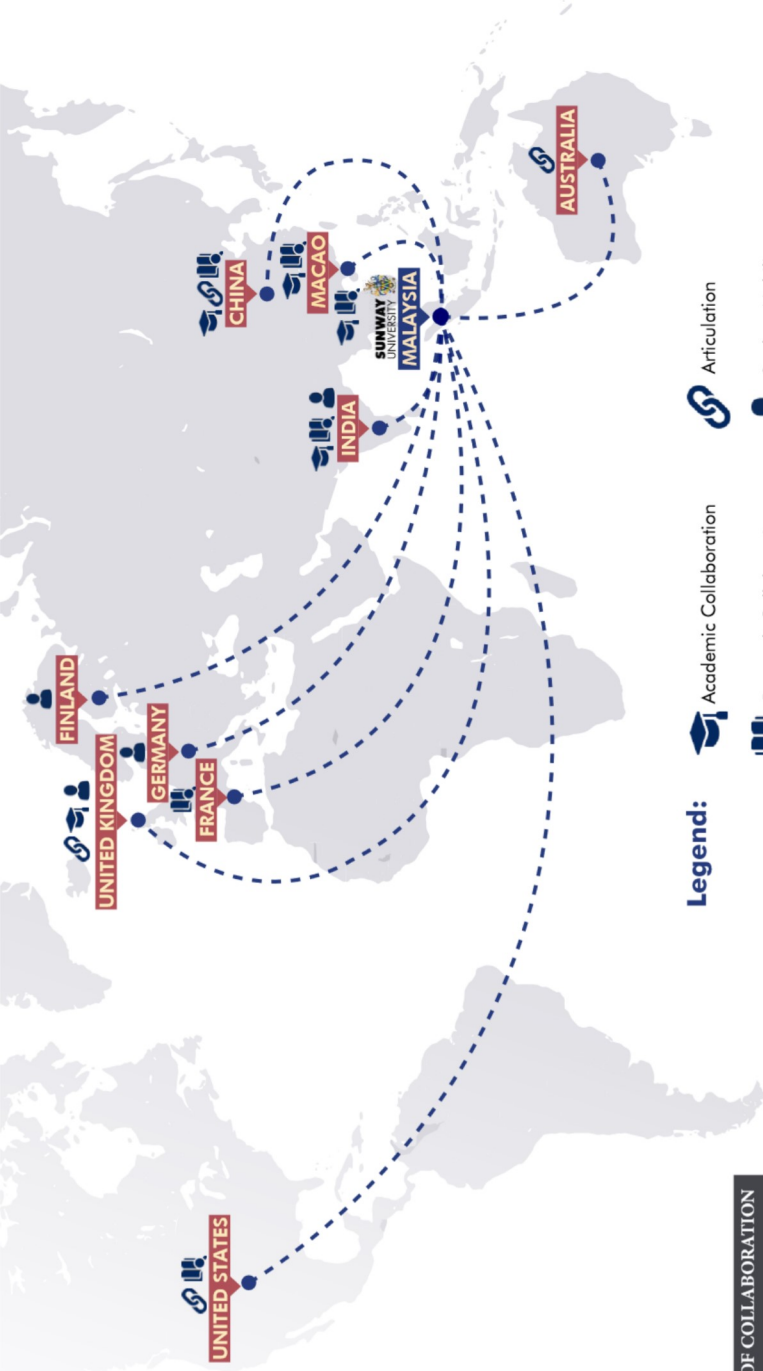
Professor Chinnery replaces Professor KJ Patel FRS, who has been appointed as Director of the Weatherall Institute of Molecular Medicine at the University of Oxford.

Professor William Swadling

Professor William Swadling has been appointed as Jeffrey Cheah Professorial Fellow at Brasenose College, University of Oxford. Professor Swadling is Senior Law Fellow of Brasenose and Professor of Law in the University of Oxford. He is an expert in Restitution, Trusts and Personal Property Law. He holds a number of visiting appointments in universities in Australia and Southeast Asia.



Working in PARTNERSHIP ▶▶



▶▶ New Partnerships Forged

ACADEMIC INSTITUTIONS	COUNTRY	TYPE OF COLLABORATION
Griffith University	Australia	Articulation
The University of Adelaide	Australia	Articulation
Hubei University of Technology	China	Research Collaboration Academic Collaboration
Huizhou University	China	Academic Collaboration
Shanghai University of Engineering Science	China	Academic Collaboration
Wuhan Polytechnic	China	Articulation
University of Electronic Science and Technology of China	China	Articulation
Metropolia University of Applied Sciences	Finland	Student Mobility
Augsburg University of Applied Sciences	Germany	Student Mobility
Chandigarh University	India	Academic Collaboration Student Mobility
Manchester Metropolitan University	United Kingdom	Student Mobility
University of Lincoln	United Kingdom	Academic Collaboration
University for the Creative Arts	United Kingdom	Articulation
Indiana Institute of Technology	United States	Articulation
Messiah University	United States	Articulation
Northwood University	United States	Articulation
South Dakota State University	United States	Articulation

Legend:



Academic Collaboration



Research Collaboration



Student Mobility



Articulation

INSTITUTIONS	COUNTRY	TYPE OF COLLABORATION
Jaipuria Institute of Management	India	Research Collaboration
Macao Institute for Tourism Studies	Macao	Research Collaboration Academic Collaboration
Malaysia Society of Geriatric Medicine	Malaysia	Research Collaboration Academic Collaboration
Clinical Research & Postgraduate Society of Sibul Hospital	Malaysia	Academic Collaboration
American Type Culture Collection (ATCC)	United States	Research Collaboration

CORPORATIONS	COUNTRY	TYPE OF COLLABORATION
Beijing Yinggeli Educational Technology Co. Ltd	China	Academic Collaboration
Henan Hopu Education Technology Co. Ltd	China	Academic Collaboration
Wuhan Yijie Education & Technology Co. Ltd	China	Articulation
International Agency for Research on Cancer (IARC)	France	Research Collaboration
Han Culture Centre Malaysia Sdn. Bhd	Malaysia	Research Collaboration Academic Collaboration

Senior APPOINTMENTS ▶▶

▶ New Senior Hires

- **Professor Sibrandes Poppema**
President of Sunway University
Chancellery Office
Date of appointment: 01 January
- **Professor Mahendhiran Sanggaran Nair**
Pro Vice-Chancellor (Research Engagement and Impact)
Chancellery Office
Date of appointment: 01 February
- **Professor Leong Yuen Yoong**
Professor of Practice
Sustainable Development Solutions Network Asia
Date of appointment: 01 February
- **Professor Santha Vaithilingam**
Professor of Econometrics and Policy Modelling
Institute for Global Strategy and Competitiveness
Date of appointment: 08 April
- **Professor Tan Sri Dr Jemilah Mahmood**
Professor of Global Health, and Executive Director, Sunway Centre for Planetary Health
Date of appointment: 01 August
- **Professor Pervaiz Khalid Ahmed**
Distinguished Research Professor of Management, and
Director of Institute for Global Strategy and Competitiveness
Date of appointment: 01 August
- **Professor Fun Woh Peng**
Professor of Practice
Jeffrey Sachs Centre on Sustainable Development
Date of appointment: 15 September
- **Professor Ferdinand Akthar Khan Gul**
Distinguished Research Professor
Department of Accounting
Date of appointment: 12 November

Adjunct and VISITING PROFESSORS ▶▶

▶ School of Engineering and Technology

- **Professor Andrew Nisbet**
Adjunct Professor
01 April 2021 – 01 March 2024
- **Dr Fakhru Alam**
Adjunct Professor
05 March 2021 – 31 December 2022
- **Professor Zaharin Bin Yusoff**
Adjunct Professor
04 January 2021 – 31 December 2023
- **Professor Sultan Dabagov**
Adjunct Professor
15 July November 2021 – 31 December 2022

▶ School of Mathematical Sciences

- **Professor XinMin Yang**
Adjunct Professor
03 January 2021 – 29 February 2024
- **Professor Wei Wei**
Adjunct Professor
03 January 2021 – 29 February 2024
- **Professor Chongyang Liu**
Adjunct Professor
03 January 2021 – 29 February 2024
- **Professor Zhixiang Yin**
Adjunct Professor
03 January 2021 – 29 February 2024
- **Professor Guoqiang Wang**
Adjunct Professor
03 January 2021 – 29 February 2024

▶ Sunway University Business School

- **Dr Ng Chi Yeung Anthony**
Adjunct Professor of Accounting
12 January 2021 – 30 November 2023
- **Dr Raymond Patrick McNamara**
Adjunct Professor of Accounting
11 August 2021 – 31 December 2024
- **Professor Paul Yeow Heng Ping**
Adjunct Professor
02 September 2021 – 28 February 2023
- **Professor Datin Sri Suhaiza Hanim Binti Mohamad Zailani**
Adjunct Professor
12 January 2021 – 30 November 2023



Investing in the Future

SUNWAY CAMPUS LIBRARY

In 2021, amidst the Movement Control Order regulations and the COVID-19 Pandemic, Sunway Campus Library continued its efforts to increase its digital content and to best cater to the needs of students and staff.

- The Library remained open with shorter working hours and minimum staff on duty except for a short period from 3-16 July when it had to be closed. Normal opening hours resumed in October but the focus on safeguarding the health and well-being of its users remained our utmost priority.
- Librarians continued providing online assistance through emails and 'Ask a Librarian' feature. A total of 1,305 enquiries were received.

• Total library membership as at 31st December 2021



8,102 students



297 academics

80 administrative staff

• Library entries

468,838 in 2020

89,782 in 2021



A decrease of 80.85% due to the Movement Control Order throughout the country where students and staff were restricted from entering campus.

• Total collections as at 31st December 2021



229,299 e-books



71,356 e-journals



174 e-databases



113,044 physical collection titles



1 million e-dissertations



98,000 e-videos



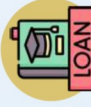
Total 1,398,829 e-titles



1,149,420 article downloads +28% increase (from 2020)



819,759 e-book downloads +35% increase (from 2020)



20,472 physical loans -51.45% decrease (from 2020)

Library Strategies and Goals

Redefining what is core in the new normal
– eliminating non-essential processes and resources

- 35% of the titles in the reading list Database for Sunway University were procured in the e-book format. The library hopes to acquire more titles in electronic format for the future.
- Weeded out 1% (1,500 copies) of the total collection consisting of old and outdated printed books.
- As a cost-saving strategy, the Library discontinued subscriptions of two e-databases.

Building resilience through the integration of technologies with speed because of the new normal – strengthening the front line through customer transformation

- The reading lists database was migrated to a new platform.
- In 2021, the total number of views for the e-database page was 32,157 while the total number of views for the reading list database was 16,973.
- There was a total of 1,439 views of the library orientation video.
- 186 students participated in the physical library tours.
- The library supports research by providing document delivery services. In 2021, the number of documents delivered were 300 showing a substantial increase of over 39 documents delivered in 2020.
- A total of 267 library workshops were conducted online and were attended by 4,548 students. Out of these, 23 workshops were for postgraduate students.

Ensuring best practice in the provision of library services

- Successfully renewed SIRIM ISO9001:2015 certification.
- The Sunway Institutional Repository maintained by the library registered a cumulative total of 1,563 staff publications from the University.
- Ten new video online tutorials were created to support student self-learning.
- The library supports accreditation initiatives by showcasing library resources, services, and facilities to the panel auditors. There were eight MQA visits in 2021.

FACILITIES ▶▶▶

Although the University remained largely closed during the year as teaching and learning continued online, physical infrastructure investments proceeded as planned. A new physics laboratory and an electronic engineering laboratory were fitted on Level 11. The Nursing skills labs were relocated to level 10 into a larger space to cater for the expanding healthcare programme provisions of the University.



Additionally, the newly acquired Amphitheatre was refurbished so that it could host University events and activities. The 1st event to be held there post refurbishment was Sunway University's physical graduation ceremony which was held in December 2021.



Sustainable CAMPUS ▶▶

Despite still being in lockdown for most of 2021, the University advanced considerably in the area of sustainability and for the very first time, published an SDG Annual Report showcasing the institution's sustainability advancements in research, engagement, leadership and education.

The University was also ranked within the top 200 for SDG 11: Sustainable Cities and Communities in the Times Higher Education Impact Rankings 2021 for the first time and became the highest-ranked private education institution in Malaysia for the commitment towards sustainability.

Listed below are some of the key highlights of 2021 in sustainability education, stewardship and outreach programmes and key projects undertaken through the Sustainable Development Solutions Network (SDSN) Malaysia Chapter.

▶ Education

In a University-Government collaboration, a series of five educational videos on climate change were produced for the Terengganu State Government focusing on forest protection in the state. Climate change is currently low on the state government's agenda and even more so among the rural communities.

Spearheaded by Professor Reuben Gopalasamy Clements, this first series was produced in the Terengganu dialect. The long-term aim is to expand the content into other states using their respective dialects.

▶ Stewardship

The University continued with its biannual eWaste initiative and for the first time, started a fabric disposal programme that ensures ethical ways of segregating and disposing of the many different types of fabric.

► Outreach

Chef Soon Pau Voon from the School of Hospitality and Service Management and his students launched an eBook on recipes from food waste entitled Edible Waste. The eBook has gone on to win the following awards:

- Gourmand World Cookbook Awards 2021/2022
- National Winner for Digital, University Press and Food Waste Categories.
- PCA Culinary Innovation Award 2021
- National Winner for Innovation in Culinary Sustainability & Education.

World Chefs has agreed to distribute the eBook to 106 countries.

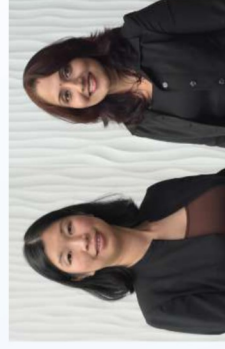
During the year, the University also introduced "Campus with a Conscience LIVE", a platform to educate staff, students and the wider community on the varied sustainability themes and the role each individual can play in advancing the sustainability agenda. The inaugural session in October was on Waste Management conducted by Professor Agamutu Pariatamby, a Professor at the Jeffrey Sachs Center on Sustainable Development specializing in Solid and Hazardous Waste Management. In December, Professor Tan Sri Dr. Jemilah Mahmood, Executive Director of Sunway Centre for Planetary Health spoke about Human Rights issues in conjunction with World Human Rights Day.

► SDSN Malaysia

An SDG Webinar Series with EPU as well as the SDG 16 Webinar Series was launched in 2021 to discuss and deliberate the various SDG goals and their impact in Malaysia. The SDSN Malaysia Translation Project on the other hand was aimed to mainstream education for sustainable development in localizing the existing course material available on SDG Academy into the Malay language.

The ASEAN Green Future project was initiated to accelerate action for decarbonisation to achieve net zero by 2050 for the ASEAN region and ASEAN member states and involves technical simulation and modelling of net zero carbon outcomes along with associated economic and social consequences of such an undertaking. Currently, SDSN members, Sunway University, and Universiti Kebangsaan Malaysia (UKM), are involved in the ASEAN Green Future Project, which has mobilised seven out of the 10 ASEAN country teams.

Prizes, Awards, AND ACHIEVEMENTS ►►



Associate Professor Dr. Sim Tze Ying and Ir. Dr. Dewika Naidu from Centre for American Education won 3rd prize in the Sunway Future Cities Challenge (FCC) 2021. Their innovative proposal was to further 'green' the city's canopy walk by applying engineering and IT solutions to harvest rainwater for plants along the walkway.

CAE

BSc (Hons) in Actuarial Studies student **Karan Amit Agarwal** emerged as the 2nd Runner Up in the M-Dash, Maybank's intensive one-of-its-kind virtual race. A total of three hundred students from across the country participated in this race.

SMS



BSc (Hons) in Actuarial Studies students **Tan Jun Jie** and **Tan Min Li** were the recipients of the prestigious Sir Edward Johnston Prize 2021. The Sir Edward Johnston Prize is awarded to the best performing graduating students on the actuarial programmes at several universities which are linked to the Institute and Faculty of Actuaries (IFoA), UK.

SMS

BSc Hons Conventions and Events Management student **Choong Wei Yao** won the Best Presenter Award at the Asian Federation of Exhibition and Convention Associations (AFECA) Asia MICE Youth Challenge 2021.

SHSM



Associate Professor **Dr. Alexander Trupp** from the School of Hospitality and Service Management was awarded the Best Graduate Paper with graduate student, **Kosita Butratana** by the Singapore Journal of Tropical Geography.

SHSM



BSc (Hons) Medical Biotechnology students Farhan Rehman Sherief and Teoh Wan Yi together with BSc (Hons) Biology with Psychology students Bryan George and Tan Yin Ji became the 2021 Eco Champions. The Eco Champion Awards (ECA) is an annual celebration to award young local environmentalist by WWF-Malaysia.

SOA

BSc (Hons) Psychology student, Samuel Ling Deren won Joint Award for Best Research Presentation at Lancaster University's 2nd Undergraduate Research Conference. The 2021 conference was the 1st UG conference held solely online, and the first to include students from all UK and overseas teaching partners.



SOA



Professor Serge Demidenko from the School of Engineering and Technology became the first Malaysian representative elected in 2021 admitted into the European Academy of Sciences and Arts, a non-governmental European Association committed to promoting scientific and societal progress.

SET

The Department of Computing and Information Systems won the Best Faculty 2021 awarded by the Malaysia Digital Economy Corporation (MDEC), from a list of 16 Premier Digital Tech Universities and 7 Polytechnics, known as Premier Digital Tech Institutions (PDTIs) - Malaysia's leading digital tech-focused tertiary institutions.



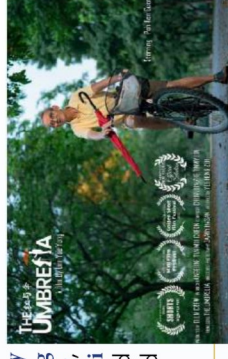
SET



Chong Laye Hoong, BA (Hons) Digital Film Production (DFP) student received the Best Student Short Film Award for "With Love, Elaine" at the "Eye" Short Film and Music Video Competition organised by Embassy of the People's Republic of China in Malaysia and the National Film Development Corporation Malaysia (FINAS).

SOA

Lim Yue Yang, Yee Heng Zeh, Tan Min Chern, Zaahy Hassan, Ee Beng Han, Kyliessa Lam Pei Yan, Yong Ting Hong, Zehn Wu Xijen, Chong Laye Hoong, Yuen Qi Di, Chun Jun Zhe and Timmy Lim Ji Yuan students from the Department of Film and Performing Arts won the People's Choice Award (Drama) at the Argo Shorts.



SOA



Dr Calvin Cheong Wing Hoh, Dr Siti Munerah Abd Karim, Dr Ng Shir Li, Dr Shehnaz Tehseen, Associate Professor Dr Derek Ong Lai Teik and Dr Nasir Abdul Jalil from the Sunway University Business School were among the recipients of the Academic Staff Excellence Award 2021 from Sunway University.

SUBS

Choo Ming Yang, Soow Siau Ting, Chung Xin Lin and Si Kim Yu, students from BSc (Hons) Marketing were selected as one of the Top 10 teams in the Alibaba Global Digital Talent (GDT) Global Challenge 2021. Team Young Boss from Sunway University developed production and marketing strategies for customisable premium pet mattresses targeted at dog and cat owners.

CONGRATULATIONS!

Team Young Boss

Shortlisted for the Alibaba GDT Global Challenge 2021 Global Finals



SUBS



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