

# Annual Review

# 2022

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# President's Preface



## I'm very pleased to introduce the Annual Review 2022 on Sunway University's achievements.

It was a very different year from the previous two years because staff and students could finally return to campus. For some of the students this was their first on-campus experience, and they enjoyed the 'most happening campus' to the fullest. We also had several graduation ceremonies in the Amphitheatre in the Lagoon, allowing students and their families to celebrate their achievements. Looking back, the University did very well in protecting the health of our students and staff and at the same time, making sure that their education and research progressed during the pandemic. Our student recruitment was 7% higher than our previous year and the total student number went up to 8,800. We introduced four new programmes in 2022, including our second engineering programme in Chemical Engineering and new master's and PhD programmes. In April, Professor Abhimanyu Veerakumarasivam was appointed as Provost, succeeding Professor Peter Heard, who returned to the United Kingdom after nearly ten years at the University.

The number of publications in Scopus increased in 2022 by nearly 13% at 973 and, more importantly, the quality of these publications as measured by citations per paper in Scopus as well as in the Web of Science, was top among Malaysian research-intensive universities and among the best in Asia and the World. The amount of external grants awarded to the University increased again with several sizable international grants. Sunway Business School doubled the number of publications in Business, Management, Economics and Finance to 180, and also achieved one of the highest citations per paper in the world. The school also obtained the Association to Advance Collegiate Schools of Business (AACSB) accreditation as the first Private Non Government-Linked Malaysian University to do so, and joining the top 5% of business schools worldwide.

The University also continued to attract top scientists. A few examples are Associate Professor Arshian Sharif who joined us in May as a top 2% scientist in the Stanford list, but also named in the Clarivate Highly Cited list as one of less than 7,000 scientists in the world. Professor Lim Weng Marc came as the new dean of the Sunway Business School in September and is a highly productive top 2% scientist. Other top 2% scientists who joined us during the year were Professor Long Chiau Ming (in Pharmacy) and Dr Katta Ramesh (in Mathematics). Other notable appointments were Professor Raja Affendi Raja Ali who came in as the new Dean of the School of Medical and Life Sciences. Professor Elilarasu Renganathan who was previously with the World Health Organisation (WHO), has also joined the School of Medical and Life Sciences.

Sustainability is key to Sunway Berhad, Sunway City, Sunway Education Group and Sunway University. To this end, the Sunway Centre for Planetary Health was established in 2021 at Sunway University under the leadership of Professor Tan Sri Dr Jemilah Mahmood and many sustainability-focused activities were developed in 2022. In December 2022 we celebrated the opening of the United Nations Sustainable Development Solutions Network (UN-SDSN) Kuala Lumpur office for Asia at Sunway University, complementing the offices in New York and Paris. In 2022, pilot studies were performed for the *Matapelajaran Pengajian Umum* (MPU) general studies subjects on Planetary Health and Community Service, on Sustainable Development and on Entrepreneurship, to be expanded in 2023 and fully implemented in 2024/2025.

Sunway University entered the Times Higher Education Ranking for the first time, at Band #801-1000, as the first and highest ranked Malaysian Private Non Government-Linked University. It also featured for the very first time in the subject rankings for Business & Economics at band #301-400 and for Physical Sciences at band #601-800.

We made good progress again in the Quacquarelli Symonds (QS) World University Rankings, rising from the #651-700 band to the #601-650 band globally and #122 in the Asia region. Our School of Hospitality and Service Management services was ranked #101-150 globally in the QS subject ranking. In the Times Higher Education Impact Rankings 2022, we ranked in the top 400 overall and top 200 for SDGs 6, 8 and 17 and in Universitas Indonesia GreenMetric we progressed upwards to #189.

Several international conferences were organized by the University, both in person as well as in hybrid mode. 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



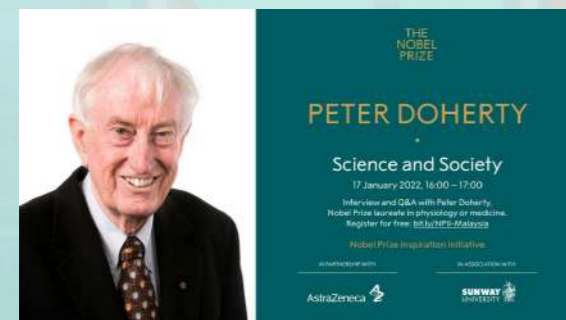
# Year in Review

JANUARY- MARCH



Sunway University was listed among the Top 10 Most Prominent Data Science Institutes 2022 in the Analytics Insight Magazine

The University's graduates from the business analytics programme recorded an employment rate of 97% in the 2021 Graduate Tracer Study survey conducted by the Ministry of Higher Education Malaysia.



Professor Peter Doherty, 1996 Nobel Laureate in Physiology or Medicine gave an online presentation to our staff and students. The event was organised through the Nobel Prize Inspiration Initiative in collaboration with Astra Zeneca.



A course on Sustainable Development Goals Education was made available to all students and staff at Sunway University to drive the sustainability agenda on campus and in the community.

This is an important initiative that the University has embarked on to realise Sunway Group's vision to be Asia's model corporation in sustainable development and achieve the 2030 Agenda.

The British Malaysian Chamber of Commerce awarded the 'UK-Malaysia Education Institutional Partnership' for Sunway University's partnership with Lancaster University and the 'UK-Malaysia Partnership of the Year' for Sunway University's partnership with AstraZeneca during its Business Excellence Awards 2022.



Minister of Higher Education Malaysia, YB Datuk Seri Dr. Noraini Binti Ahmad witnessed the Signing Ceremony of Memorandum of Understanding (MoU) between University of Cambridge, UK and Sunway University through the Jeffrey Cheah Foundation, in Cambridge, United Kingdom.

The MoU signed is a continuation of cooperation that has formed over the past two decades and this partnership strengthens the links between Cambridge University and Sunway University whilst benefiting strategic bilateral ties between Malaysia and the UK.



The Sunway University Young Chefs published a cookbook of transforming edible food waste into new dishes. The book entitled 'Edible Waste: a Cookbook' won the Food Waste Book category at the Gourmand World Cookbook Awards 2022 held in Sweden.

APRIL - JUNE

Sunway University once again emerged as the highest-ranked private university in Malaysia in the Times Higher Education (THE) Impact Rankings 2022.



Sunway University rolled out its Career Readiness Programme (CRP) to prepare students for their future careers starting from pre-university to graduate level.

The programme aims to develop graduates who would be equipped for all of life's challenges and opportunities as well as being highly sought-after by employers.

JULY - SEPTEMBER



Sunway University hosted the 2022 ASEAN Quality Assurance Conference themed 'Emerging from Crisis: Refining Quality Assurance Toward Stability in Higher Education'.

The conference encompassed the progress of academic, research, assessment and quality assurance practices over the COVID-19 lifespan on a scale of international cross-comparison.



Rank	Institution	Gold	Silver	Bronze	Total
1	UNIVERSITI PUTRA MALAYSIA	38	19	20	77
2	UNIVERSITI TEKNOLOGI MARA	26	23	23	72
3	SUNWAY UNIVERSITY	15	18	11	44
4	UNIVERSITI MALAYA	15	13	18	46
5	UCSI UNIVERSITY	15	6	4	25
6	UNIVERSITI PERTANAHAN NASIONAL MALAYSIA	13	13	8	34
7	POLITEKNIK MALAYSIA	12	14	8	34
8	UNIVERSITI PENDIDIKAN SULTAN IDRIS	9	10	20	39
9	TAYLOR'S UNIVERSITY	8	11	8	27
10	UNIVERSITI UTARA MALAYSIA	4	3	7	14
11	UNIVERSITI MALAYSIA SARAWAK	4	2	7	13
12	INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA	4	2	6	12

Sunway University finished at third placing in the overall medal tally (out of 65 institutions) in the prestigious 2022 SUKIPT competition, a biennial inter-university sports carnival amongst public and private universities, as well as polytechnics and community colleges in Malaysia.

Bagging 44 medals in total (15 gold, 18 silver, and 11 bronze), the University maintained its leading position amongst the Private Higher Education Institutions for the past four game seasons.

Sunway University Press published three books among the 50 Best Malaysian Titles for International Rights 2021/2022 by the National Book Council of Malaysia, Ministry of Education, Malaysia. The publications were featured at the Frankfurt Book Fair 2022, the World's largest and most important trade fair for books.



The three books were 'Colours of Malaysia: The Art of Amirudin Ariffin' (Graeme Wilkinson & Bo Li), 'The Science of Feelings: What Psychological Research Tells Us About Our Emotions' (Eugene Tee) and 'Mending Hearts: Healing from Separation and Loss, a Collection of True Stories' (edited by Mengzhen Lim & Grace Yap).



In conjunction with the 7<sup>th</sup> anniversary of the worldwide launch of the United Nation's Sustainable Development Goals, Sunway University held a week-long festival in September. The continuing call to action focusing on the theme of Local Action for Global Goals brought together government representatives, non-governmental organisations, student societies and the campus community for conversations to advance the Global Goals through local and individual action.

To this end, alternative food packaging solutions were introduced, to reduce waste generation from the campus cafeteria. Environmentally friendly products were also sold while purchasing options that promoted zero packaging waste were introduced.

## OCTOBER - DECEMBER

Sunway Business School successfully earned accreditation from the Association to Advance Collegiate Schools of Business (AACSB) and become the first private Malaysian university to attain this globally prestigious accreditation.

AACSB is the longest-serving global accrediting body and a Gold standard for business schools, with less than 6% of business schools worldwide holding this distinguished accreditation.



The University was ranked for the first time in the Times Higher Education (THE) World University Rankings 2023. Sunway University is at the band 801-1000, out of 1,799 universities, across 104 countries and regions.

The Business & Economics and Physical Sciences subjects have secured #301-400 and #601-800 positions globally in the largest and most diverse university rankings.



The United Nations Sustainable Development Solutions Network (SDSN) launched its newest secretariat office in Asia, hosted at Sunway University. The office in Sunway City Kuala Lumpur will serve as SDSN's Asia Headquarters, one of only three such global centers, alongside Paris and New York City.



'A Legacy of Giving', was an event organised for the first time to appreciate Sunway alumni who have contributed back to the community. The event was presided by Sunway University's Chancellor, Tan Sri Dato Seri' Dr Jeffrey Cheah AO.

# University Governance



## BOARD OF DIRECTORS

**Tan Sri Dato' Seri Dr Jeffrey Cheah AO** (Chairman)  
(Alternate: **Ms Sarena Cheah Yean Tih**)

**Tan Sri Dato' (Dr) Chew Chee Kin**

**Tan Sri Datuk Seri Razman M Hashim**

**Tan Sri Dato' Dr Lin See Yan**

**Dato' Sri Idris Jala**

**Dato' Dr Lee Weng Keng**

**Dr Philip Yeo Liat Kok**

**Professor Dato' Dr Elizabeth Lee Fuh Yen**

**Professor Graeme George Wilkinson**

**Professor Jarlath Ronayne AM**

**Professor Sibrandes Poppema**

## ACADEMIC SENATE

### Chair

**Professor Sibrandes Poppema**  
President

### Co-Chair

**Professor Abhimanyu Veerakumarasivam**  
Provost

### Members

**Professor Agamutu Pariatambu**  
Associate Dean (Research and Postgraduate Studies), School of Interdisciplinary Studies

**Professor Adarsh Kumar Pandey**  
Associate Dean (Engagement), School of Engineering and Technology

**Professor Alexandre Rene Schaefer**  
Head, Ageing Health and Well-Being Research Centre, School of Medical and Life Sciences

**Professor Alvin Ng Lai Oon**  
Associate Dean (International), School of Medical and Life Sciences

**Professor Angela Amphawan**  
Professor, School of Engineering and Technology

**Professor Angela Lee Siew Hoong**  
Associate Dean (Employability) and Head, Department of Computing and Information Systems, School of Engineering and Technology

**Professor Bradley Carl Freeman**  
Associate Dean (Education), School of Arts

**Professor Chaiporn Vithessonthi**  
Professor, Sunway Business School

**Professor Cheah You Sum**  
Professor, Sunway Business School

**Professor Crispin Nicholas Bates**  
Director, Centre for South Asian and Indian Ocean Studies

**Professor Datin Dr Chia Yook Chin**  
Head, Department of Medical Sciences, School of Medical and Life Sciences

**Professor Dato' Dr Elizabeth Lee**  
Chief Executive Officer, Sunway Education Group

**Professor Dato' Woo Wing Thye**  
Professor, Sustainable Development Solutions Network Asia

**Professor David Andrew Bradley**  
Distinguished Professor and Head, Research Centre for Applied Physics and Radiation Technologies, School of Engineering and Technology

**Professor Edward Richard Tom Tiekink**  
Distinguished Professor and Head, Research Centre for Crystalline Materials, School of Medical and Life Sciences

**Professor Elilarasu Renganathan**  
Professor, School of Medical and Life Sciences

**Professor Fun Woh Peng**  
Professor of Practice, Jeffrey Sachs Center on Sustainable Development

**Professor George John Hess Jr**  
Professor, School of Arts

**Professor Glenda Marian Crosling**  
Head, Centre for Higher Education Research

**Professor Gopalasamy Reuben Clements**  
Chief Planetary Health Scientist, Sunway Centre for Planetary Health

**Professor Graeme Wilkinson**  
Tan Sri Jeffrey Cheah Distinguished Professor

**Professor Hew Gill**  
Associate Provost

**Professor Ho Chee Kit**  
Dean, School of Mathematical Sciences

**Professor Hwang Ha Jin**  
Head, Department of Business Analytics, Sunway Business School

**Professor Jarlath Ronayne AM**  
Tan Sri Jeffrey Cheah Distinguished Professor

**Professor Jeff Tan Kuan Onn**  
Professor, School of Medical and Life Sciences

**Professor Kenneth Alan Feinstein**  
Associate Dean (Employability and Engagement), School of Arts

**Professor Kenneth Anthony Cafferkey**  
Professor, Sunway Business School

**Professor Khatijah Abdullah**  
Head, Department of Nursing, School of Medical and Life Sciences

**Professor Lau Sian Lun**  
Associate Dean (International) and Head, Department of Engineering, School of Engineering and Technology

**Professor Lee Chien Sing**  
Professor, School of Engineering and Technology

**Professor Leong Choon Heng**

Professor, Jeffrey Sachs Center on Sustainable Development

**Professor Lim Weng Marc**

Dean, Sunway Business School

**Professor Long Chiau Ming**

Associate Dean (Research and Postgraduate Studies), School of Medical and Life Sciences

**Professor Mahendhiran Sanggaran Nair**

Pro Vice-Chancellor (Research Engagement & Impact)

**Professor Marcus Lee Stephenson**

Dean, School of Hospitality and Service Management

**Professor Matthew James Sansom**

Pro Vice-Chancellor (Education)

**Professor Matthew Marshall**

Dean, School of Arts

**Professor Mayeen Uddin Khandaker**

Professor, School of Engineering and Technology

**Professor Michael M Dent**

Head, Department of Marketing Strategy and Innovation, Sunway Business School

**Professor Mohamed Ariff Syed Mohamed**

Distinguished Professor and Head, Department of Economics & Finance, Sunway Business School

**Professor Mohammad Khalid**

Head, Graphene and Advanced 2D Materials Research Group, School of Engineering and Technology

**Professor Mohamed Kheireddine Aroua**

Associate Dean (Research and Postgraduate Studies), and Head, Research Centre for Carbon Dioxide Capture and Utilisation, School of Engineering and Technology

**Professor Motoki Watabe**

Head, Department of Management, Sunway Business School

**Professor Patrick Siau Chi Yin**

Practice Professor, School of Hospitality and Service Management

**Professor Peh Suat Cheng**

Professor, School of Medical and Life Sciences

**Professor Pervaiz K Ahmed**

Director, Sunway Institute for Global Strategy and Competitiveness

**Professor Poh Chit Laa**

Distinguished Professor and Head, Centre for Virus and Vaccine Research, School of Medical and Life Sciences

**Professor Pua Eng Chong**

Special Adviser on China Engagement

**Professor Raja Affendi Raja Ali**

Dean, School of Medical and Life Sciences

**Professor Sabine Chaouche**

Associate Dean (Research and Postgraduate Studies), School of Arts

**Professor Saidur Rahman**

Distinguished Research Professor and Head, Research Centre for Nano-Materials and Energy Technology, School of Engineering and Technology

**Professor Santha Vaithilingam**

Professor, Sunway Institute for Global Strategy and Competitiveness

**Professor Satesh Narayana Namasivayam**

Professor, School of Engineering and Technology

**Professor Serguei Demidenko**

Dean, School of Engineering and Technology

**Professor Shandre Mugan Thangavelu**

Head, Jeffrey Cheah Institute on Southeast Asia

**Professor Stephen James Hall**

Dean, School of Interdisciplinary Studies

**Professor Susela Devi K Suppiah**

Director, Centre for Accountability and Governance Research, Sunway Business School

**Professor Tan Sri Dr Jemilah Mahmood**

Executive Director, Sunway Centre for Planetary Health

**Professor Teo Kok Lay**

Associate Dean (Research & International), School of Mathematical Sciences

**Professor Wong Chin Huat**

Professor, Sustainable Development Solutions Network Asia

**Professor Wong Koi Nyen**

Associate Dean (Education), Sunway Business School

**Professor Yap Kian Meng**

Head, Research Centre for Human-Machine Collaboration, School of Engineering and Technology

**Professor Yeah Kim Leng**

Professor, Jeffrey Cheah Institute on Southeast Asia

**Professor Yuka Fujimoto**

Associate Dean (Research and Postgraduate Studies), Sunway Business School

**Ex-Officio****Dr Janaki Sinnasamy**

Chief Librarian

**Ng Beng Lean**

Group Registrar

**By Invitation****Professor Andrew James Abbott**

Academic Dean, Lancaster Programmes

**Associate Professor Dr Adrian Lee Yuen Beng**

Head, Department of Film and Performing Arts, School of Arts

**Associate Professor Dr Chew Jacty**

Associate Dean (Education), School of Medical and Life Sciences

**Associate Professor Dr Kavita Reginald**

Head, Department of Biological Sciences, School of Medical and Life Sciences

**Associate Professor Dr Sim Tze Ying**

Associate Dean (International), School of Interdisciplinary Studies and Head, Centre for American Education

**Dr Jane Teh Kimm Lii**

Associate Dean (Education), School of Mathematical Sciences

**Dr Khoo Wooi Chen**

Head, Department of Applied Statistics, School of Mathematical Sciences

**Dr Low Yeh Ching**

Associate Dean (Education), School of Engineering and Technology

**Dr Nicholas Lee Boon Kheng**

Associate Dean (Education) and Associate Dean (Employability and Engagement), School of Interdisciplinary Studies and Head, English for Specific Academic Purposes Unit

**Dr Padma Priya K.R Pillai**

Head, Department of Communication, School of Arts

**Dr Paul Linus Andrews**

Associate Dean (International), Sunway Business School and Head, Centre for Commercial Law and Justice

**Ms Maslisa Zainuddin**

Head, Department of Art, Design and Media, School of Arts

**Ms Izah Isa**

Head, Academic Affairs

**Ms Siti Fariza Mohd Dahlan**

Director, University Services

**Ms Chairmane Oon**

Undergraduate Student Representative

**Ms Ke Ying Nyiew**

Postgraduate Student Representative

UNIVERSITY STRATEGIC  
MANAGEMENT COMMITTEE**Professor Sibrandes Poppema** (*Chair*)

President, Sunway University

**Professor Dato' Dr Elizabeth Lee** (*Alternate Chair*)

Chief Executive Officer, Sunway Education Group

**Professor Abhimanyu Veerakumarasivam**

Provost

**Professor Mahendhiran Sanggaran Nair**

Pro-Vice-Chancellor (Research Engagement and Impact)

**Professor Matthew James Sansom**

Pro-Vice-Chancellor (Education)

**Professor Ho Chee Kit**

Dean, School of Mathematical Sciences

**Professor Lim Weng Marc**

Dean, Sunway Business School

**Professor Marcus Lee Stephenson**

Dean, School of Hospitality and Service Management

**Professor Matthew Marshall**

Dean, School of Arts

**Professor Raja Affendi Raja Ali**

Dean, School of Medical and Life Sciences

**Professor Serguei Demidenko**

Dean, School of Engineering and Technology

**Professor Stephen James Hall**

Dean, School of Interdisciplinary Studies

**Ms Betty Lai**

Chief Resources Officer

**Ms Lee Siok Ping**

Director – Student LIFE

**Ms Lim Shui Chin**

Director – International Office and Special Projects

**Mr Lucas Tong**

Deputy Chief Financial Officer

**Ms Ng Beng Lean**

Group Registrar

**Mr Ng Kok Cheng**

Chief Financial Officer

**Mr Patrick McVeigh**

Director – Branding & Corporate Communications

**Ms Preeti Nair**

Director – Strategy and Planning

**Ms Siti Fariza Mohd Dahlan**

Director – University Services

**Mr Tony Lee**

Chief Information Officer

**Ms Wong Lei Lei**

Director – Marketing and Customer Experience



# Academic Highlights

## ACADEMIC ENHANCEMENT

### The year 2022 saw the campus returning to its pre-pandemic status as a vibrant learning hub.

The Academic Enhancement Division (AED), an entity that is responsible for supporting academic staff development teaching and related academic practices, reviewed its provision to ensure that academic staff development needs were met. To this end, the following was provided:

- Workshops and trainings were regularly offered in three modes to accommodate staff's needs i.e. fully online, fully face-to-face or hybrid/flipped.
- Significant number of provisions focused on technology integration in teaching to fulfil the high demand.

Academic staff were highly satisfied with the programmes, as reflected by the high participation and satisfaction rate.

**250 academics** participated in face-to-face workshops

**370 academics** accessed online courses on AED OpenLearning platform

**95%** of the programmes scored **8.5 and above** (out of 10) satisfaction rate

## Highlights on AED 2022 Initiatives

### 'Reimagining Teaching and Learning' – Sharing Practice Webinar

- Held in March, this event was part of a webinar series to provide a platform for the academic community to share and celebrate good practices in teaching, and the opportunity was also extended to academics from Lancaster University (Sunway University's institutional partner). Topics discussed were as follows:



Engaging Students in an Online Environment



Designing Quality and Authentic Assessments



Blended Learning using Collaborative Tools

### 'Out of the Dark and Into the Light'– Teaching and Learning Poster Competition

- Held from October 10<sup>th</sup> – 14<sup>th</sup>, the competition aimed to provide academic staff with the opportunity to reflect on and share their good academic practices, teaching concerns, and solutions. Participants included academics from Sunway University and Sunway College Kuala Lumpur.
- The panel of judges comprised three international and one local academic.
- 1<sup>st</sup> and 2<sup>nd</sup> prizes went to academics from the School of Mathematical Sciences.



The winners with CEO, Sunway Education Group, Professor Dato' Elizabeth Lee and President, Sunway University, Professor Sibrandes Poppema.

- This highly successful competition focused on lessons learned from the pandemic and how they informed teaching practices, going forward.





PROFESSIONAL AND CONTINUING EDUCATION

The Professional and Continuing Education (PACE) department was established in June with the responsibility of promoting lifelong learning objectives of Sunway University. PACE supports the offering of a wide range of professional and continuing education courses, both credit and non-credit-bearing, such as micro-credentials and other short courses. The department also aims to achieve the provision of Accreditation for Prior Experiential Learning (APEL) and drive innovative approaches for delivering online and distance learning (ODL) courses at Sunway University.

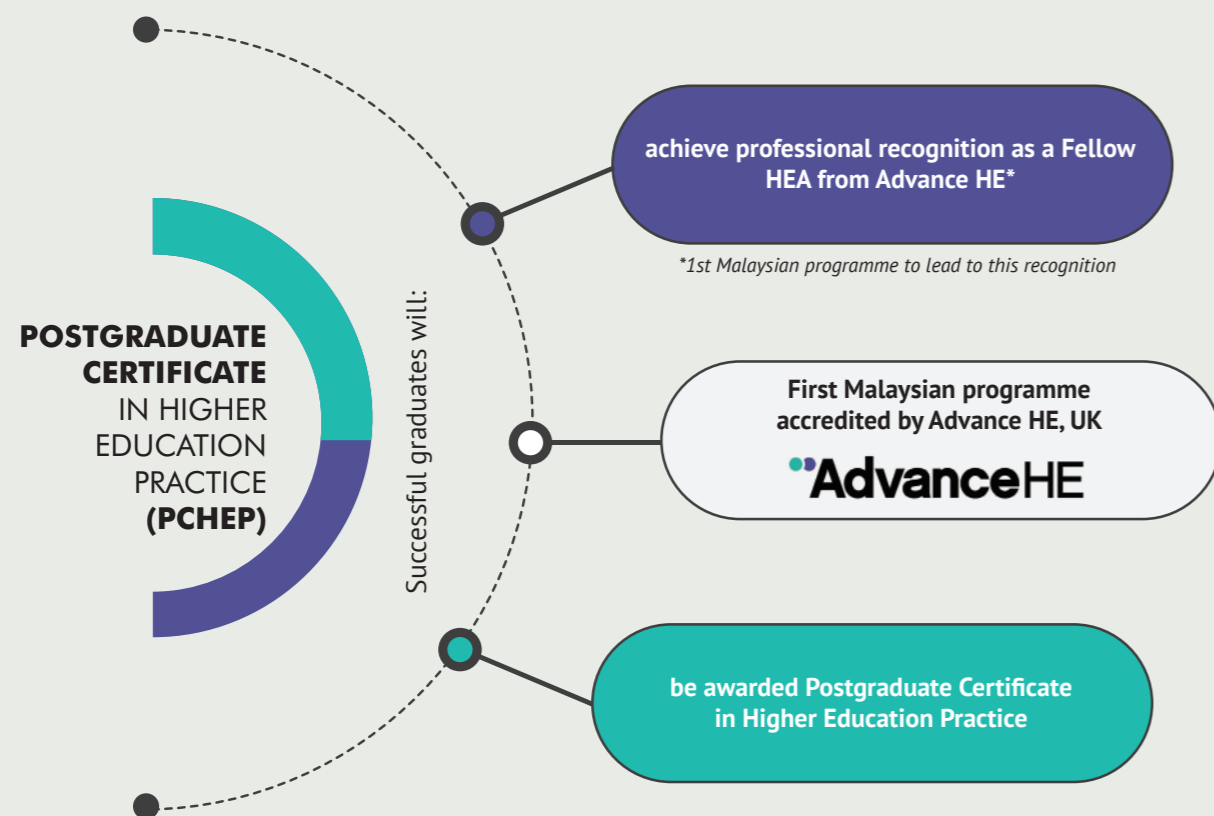
Within six months of its establishment, PACE received the approval to access students via Accreditation of Prior Experiential Learning for Credit (APEL.C) as well as Accreditation of Prior Learning for Access (APEL.A).

- PACE also supported the launch of four online and distance learning programmes:
1. Master in Sustainable Development Management
  2. Master in Public Policy
  3. Master of Business Administration
  4. Master of Data Science



The Launch of the Postgraduate Certificate in Higher Education Practice (PCHELP)

- The programme is a testimony to Sunway University's commitment towards providing high quality learning experience to students, via its academic staff qualification and professional recognition in teaching and is open to all academic staff from Sunway University and Sunway College.
- The inaugural intake was in August 2022 with all successful applicants receiving a scholarship from their respective institutions.



In a concerted effort to align with the University's aspirations of expanding access and opportunities to students, three *Matapelajaran Pengajian Umum* (MPU) Online courses had undergone a comprehensive overhaul;

1) MPU 3222: Entrepreneurial Mindset and Skills

Armed with the fundamental belief that everyone (and anyone) can become an entrepreneur, this course introduces learners to the entrepreneurial mindset and skills relevant in the 21<sup>st</sup> Century through exciting gamified content.

2) MPU 3312: Sustainable Development in Malaysia

With key sustainability related issues becoming more prevalent in our daily lives, exploration on why addressing sustainability challenges is important and why there is a need to start taking note of the SDGs - in the localised Malaysian context.

3) MPU 3412: Community Service for Planetary Health

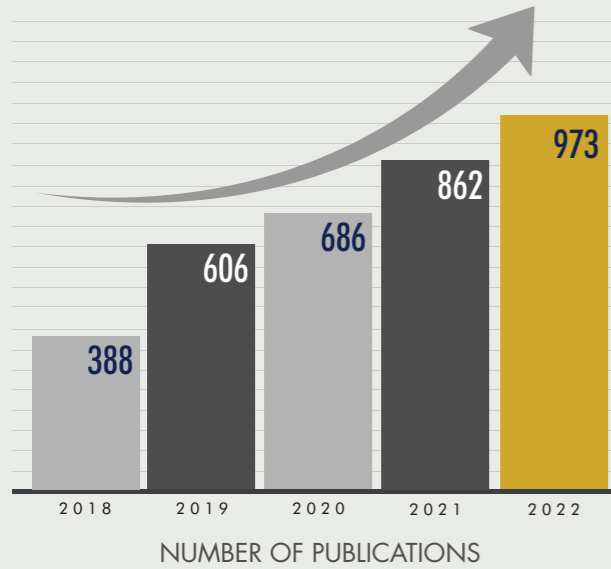
Community Service for Planetary Health seeks to introduce undergraduate students to the concept of planetary health - a holistic approach that integrates the care of people's health and the health of planet Earth.



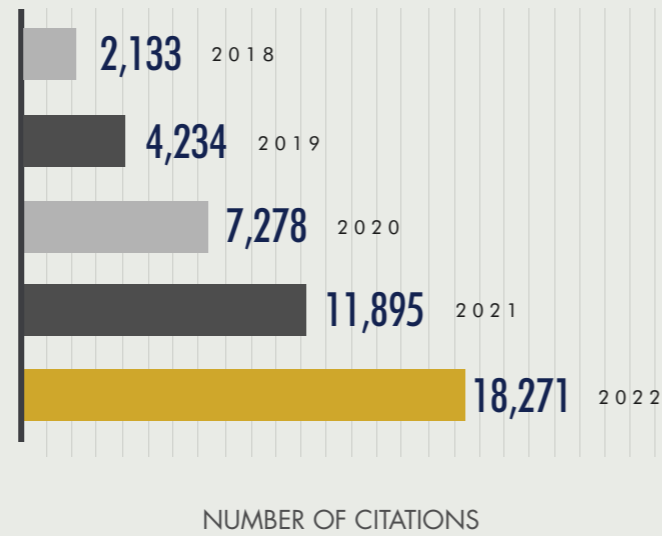
# Research Highlights

## Publications and Citations

The University experienced a significant increase in its research publication output, with a growth of 12.9% in the number of Scopus-indexed publications and a 37.1% increase in the number of Scopus citations compared to the previous year.



Source: Data derived from Scopus on May 2023.



Source: Data derived from MyRA data for year of assessment 2022.

## STANFORD UNIVERSITY LIST OF WORLD'S TOP 2% SCIENTISTS 2022

Stanford University recently conducted a study examining the citation metrics of more than 160,000 scientists across 22 scientific fields and 176 subfields. Citation metrics are commonly used to gauge the significance and relevance of a particular research topic. As part of the study, a comprehensive list of top researchers, representing the top 2% of scientists globally, was published, which included 20 researchers from Sunway University.



### SUNWAY UNIVERSITY'S WORLD CLASS RESEARCHERS



<b>Professor Saidur Rahman</b> Graphene, Solar Energy, Nanofluids	<b>Professor Edward Tiekink</b> Chemical Crystallography Metal-Based Drugs	<b>Professor Mohamed Kheireddine</b> CO2 Capture and Utilization	<b>Professor Sibrandes Poppema</b> Immunology General & Internal Medicine	<b>Professor Pervaiz K Ahmed</b> Innovation, Competitiveness Knowledge Management
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<b>Professor Mayeen Uddin Khandaker</b> Radiation Physics	<b>Associate Professor Dr Numan Arshid</b> Nanomaterials Electrochemical Energy Storage Sensor Applications	<b>Professor David Bradley</b> Radiation Interactions Biomedical Physics	<b>Associate Professor Dr Teow Sin Yeang</b> Immunology General & Internal Medicine	<b>Professor Peh Suat Cheng</b> General & Internal Medicine
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<b>Professor Agamutu Pariatamby</b> Solid & Hazardous Waste Materials	<b>Professor Teo Kok Lay</b> Engineering Mathematics Optimisation and Control	<b>Professor Adarsh Kumar Pandey</b> Nanomaterials, Solar Energy	<b>Professor Mohammad Khalid</b> Graphene 2-D Materials	<b>Professor Angela Amphawan</b> Optical Electronics & Photonics
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<b>Dr Katta Ramesh</b> Mathematics Mechanical Engineering	<b>Professor Lim Weng Marc</b> Business	<b>Professor Long Chiau Ming</b> Pharmacy	<b>Associate Professor Dr Arshian Sharif</b> Business / Environment	<b>Professor Ferdinand A Gul</b> Corporate Finance, Corporate Governance, Financial Accounting
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## EXTERNAL RESEARCH GRANTS AWARDED TO THE UNIVERSITY IN 2022

Total funds awarded in the year: **RM 1,585,700**

Listed in alphabetical order by name of Principal Investigator.

PRINCIPAL INVESTIGATOR	TITLE OF RESEARCH	FUNDING BODY
Associate Professor Dr Alexander Trupp	Embedding the Framework of Culture of Health in Small Medium Enterprises (SMEs): A Comparative Perspective Between Japan and Southeast Asia.	Toshiba International Foundation
Professor Angela Amphawan	Unmanned Aerial Vehicle-based Spatial Mode Diversity Free-Space Optical System for Reducing Link Failure During Flood Recovery Communications.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Dr Athirah Binti Mohd Ramly	Machine Learning with Cross OSI Layer Approaches in Autonomous Factory Deployment for Ultra-Reliable 6G Mobile Communications.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Associate Professor Dr Felicia Chung Fei Lei	Genetic and Epigenetic Determinants of Cancer Cell-Intrinsic Immune Evasion in Nasopharyngeal Carcinoma.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Associate Professor Dr Felicia Chung Fei Lei	What Caused My Cancer? : Investigating Human Cancers Associated with Exposure to Aristolochic Acids.	L'Oreal
Professor Fun Woh Peng	Dissemination of Decentralized Energy System: Comparison and Dialogue between Japan and Malaysia.	Toshiba International Foundation
Professor Tan Sri Dr Jemilah Mahmood	Planetary Health: A New Paradigm for The Future.	World Health Organisation
Professor Lau Sian Lun	Susthack – Synchronizing Sustainable Development Actions Between Finland and Malaysia – The Hackathon Approach.	Lappeenranta-Lahti University of Technology (Finland)
Professor Leong Choon Heng	Awareness about and Response for Environmental, Social and Governance (ESG) and Sustainability.	Hong Leong Assurance Berhad
Dr Say Yee How	Deciphering the Role of Cytokine IL-13 rs20541 in Ageing- and Obesity-associated Adipose Tissue Dysfunction.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Dr Tan Yee Seng	Tailoring Supramolecular Isomerism for Efficient Carbon Dioxide Adsorption.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Associate Professor Dr Teow Sin Yeang	Elucidating Determinant Factors that Enhance Transcytosis and the Anticancer Efficacy of a Chitosan Nanogel-Loaded with 5-fluorouracil in Colorectal Cancer.	Ministry of Higher Education Malaysia - Fundamental Research Grant Scheme
Dr Wu Yuan Seng	Elucidation of Therapeutic Effects of Karanjin and Karanjin-loaded Chitosan Nanoparticles against Microglial Cells-Mediated Neuroinflammation using In vitro and in Silico Analyses.	Yayasan Penyelidikan Otak, Minda Dan Neurosains Malaysia

Professor Yap Kian Meng	Using Drone and High-Resolution Imagery Technology to Predict Plant Health and Artisanal-Fishing in Mangrove/Nipah and Riverine Ecosystems in Sarawak.	Asia Pacific Telecommunity
Professor Yuka Fujimoto	Sustainable Waste Management in the Global South.	Sumitomo Foundation Japan

## INTERNAL RESEARCH GRANTS AWARDED TO THE UNIVERSITY IN 2022

Total funds awarded in the year: **RM1,949,400**

Listed in alphabetical order by School and Department.

**School of Arts was awarded a total of RM 172,100 for the following projects:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Art, Design and Media</b>	Giving is Getting: Exploring Possibilities of Time Bank Concept in Malaysia.	Dr Goh Yi Sheng
<b>Centre for Research-Creation in Digital Media</b>	Developing Thematic Areas on Digital VR technology in the Culture, Arts and Heritage of Malaysia and the Region.	Professor Harold Thwaites
<b>Communication</b>	Genealogies of Diaspora: Subaltern Migrants in the Indian Ocean.	Professor Crispin Nicholas Bates
	Media Framing Of Cyberbullying: Online Malaysian News Media Coverage And Its Impact On Youth Attitudes Towards Cyberbullying Laws.	Ms Priyadharshini Ahrumugam
<b>Film and Performing Arts</b>	Bangladeshi Migrant Workers in Malaysian Cities: Choice, COVID-19 and Well-being.	Professor Sabine-Salima Chauouche

**Sunway Business School was awarded a total of RM 147,200 for the following projects:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Business Analytics</b>	Smart Virtual Robot Automation (SVRA) - Improving Decision-Making Processes in Enterprise Resource Planning (ERP).	Dr Tang Tiong Yew
<b>Economics and Finance</b>	Financial Accessibility of Small and Medium-Sized Enterprises (SMEs): Malaysian Perspective.	Dr Chong Poh Ling
	Minimum Wage Policy as a New Paradigm to Mitigate the Dependency of Low-Skilled Foreign Workers in an Emerging Economy.	Dr Bawani Lelchumanan
	Price Discovery and Price Rigidity in Overnight Markets in a Dual Banking System.	Dr Lianne Lee Mei Quin

<b>Management</b>	Contextualising Nurse Turnover: A Sustainability Approach in Understanding Turnover Motives of Nurses Working in the Healthcare Sector.	Dr Ester Ellen Trees Bolt
	Sustainability & CSR Evaluative Tool Development.	Dr Stephen Thomas Homer
<b>Marketing Strategy and Innovation</b>	Green Dilemma: Investigating the Effect of Information Uncertainty and Brand Reputation on Coping Strategies and Consumption Behaviour.	Dr Loo Wee Hong
	Understanding Consumers' Second-Hand Clothing Purchase Intention from Multiple Theoretical Perspectives.	Dr Koay Kian Yeik

**School of Engineering and Technology was awarded a total of RM 711,900 for the following projects:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Computing and Information Systems</b>	Optimized Dragonfly Algorithms for Improving Channel Estimation and Routing in Optical Spatial Multiplexing Systems in Smart Cities.	Dr Muhammed Basheer Jasser
	Spatial Mode Diversity for Enhanced Resilience of Free Space Optics System During Floods.	Professor Angela Amphawan
	Ubiquitous Health (U-Health) Smart Home Adoption.	Professor Angela Lee Siew Hoong
	Using Drone and High Resolution Imagery Technology To Predict Plant Health and Artisanal Fishing In Mangrove/Nipah and Riverine Ecosystems in Sarawak.	Professor Yap Kian Meng
<b>Engineering</b>	Analytical Evaluation of Uncertainty Propagation for Probabilistic Design Optimisation.	Professor Serguei Demidenko
	Development of Baseline Data for the Spatial and Temporal Distribution and Accumulation Rate of Marine Microplastic Debris in the Malaysian Mangrove Ecosystem.	Associate Professor Abdul Aziz Bin Omar
<b>Graphene and Advanced 2D Materials Research Group</b>	Development of Flexible and Lightweight 2D Nanomaterials Based Electrochemical Energy Storage Devices for Portable Electronics.	Dr Numan Arshid
	Development of Sustainable Supercapacitors for Next-Generation On-Body Wearables.	Dr Jayesh Cherusseri
	One-Step Controlled Synthesis of 2D MXene/Activated Carbon Hybrid Electrode for High Energy Density Lithium-Ion Batteries and Supercapacitors.	Professor Mohammad Khalid
<b>Research Centre for Applied Physics and Radiation Technologies</b>	Detecting First Signs of Graphite Neutron Damage in the Operation of a Reactor.	Professor David Andrew Bradley

Fundamental Evaluation of Proton-Irradiated Carbon-Rich Media for Dosimetry and Damage Studies.	Dr Lam Siok Ee
Optimization of Production Parameters for Non-Carrier Added Positron Emitting <sup>68</sup> Ga Radiometal for PET Imaging Applications.	Professor Mayeen Uddin Khandaker
Prognostic Factors of CT Perfusion and High-Resolution CT Correlation Among Patients with COVID-19 Pneumonia.	Dr Chew Ming Tsuey

**Research Centre for Carbon Dioxide Capture and Utilisation**

CO <sub>2</sub> Capture Using Novel Non-aqueous Green Hybrid Solvent of Polyamine-based Deep Eutectic Solvent and Sulfolane.	Dr Mohd Azlan Bin Kassim
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Development of Amine-based Functionalized Graphene as New Class of Nanofluids for the Efficient Absorption of CO <sub>2</sub> .	Professor Mohamed Kheireddine Ben Taieb Aroua
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Reduction of CO <sub>2</sub> Concentration from Biogas Production Process: A Life Cycle Analysis of Porous Carbon Pellet from Solid Waste.	Dr Farihausnah Binti Hussin
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**Research Centre for Nano-Materials and Energy Technology**

Development of MXene Nanocomposite Using Low-Cost Precursor Materials.	Professor Saidur Rahman
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MXenes with Non-Precious Transition Metal (Iron) as Electrode Active Material in Vanadium Redox Flow Batteries (VRFB).	Dr Tan Kim Han
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Operative Thermal Management of Solar Photovoltaic Batteries via ZnO Tetrapod Enhanced Phase Change Materials.	Professor Adarsh Kumar Pandey
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**School of Hospitality and Service Management was awarded a total of RM 36,200 for the following project:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Hospitality and Service Management</b>	Tourists' Visit and Revisit Intentions in the Context of Malaysia's Reopening Process to International Tourism during the Covid-19 Pandemic.	Dr Kamelia Chaichi

**School of Interdisciplinary Studies was awarded a total of RM 104,100 for the following projects:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Centre for American Education</b>	Development of Potential Natural Compounds Consisting of Terpene Derivatives Conjugated with Nanoparticles Against Primary Amoebic Meningoencephalitis caused by Naegleria fowleri.	Dr Kavitha Rajendran
	Investigating Indoor Ambient Air Microplastics (MP) Pollution in Residential and Office Environments in Klang Valley.	Ir Dr Dewika Naidu Munisamy Naidu

<b>Centre for English Language Studies</b>	Exploring the Influence of Religious Beliefs on ESL Teacher Identity.	Ms Lee Yii Tyng
<b>Jeffrey Sachs Center on Sustainable Development</b>	Establishing Malaysia's First Climate Change Marine Simulator to Study and Enhance the Thermal Resistance of Corals.	Dr Chen Jit Ern

**School of Mathematical Sciences was awarded a total of RM 74,900 for the following projects:**








DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Actuarial Science and Risk</b>	Tensor Data Dynamics with Partial Differential Equations (PDEs).	Ms Sia Jye Ying
<b>Applied Statistics</b>	Adaptive Multivariate Exponentially Weighted Moving Average (MEWMA) Chart to Monitor the Coefficient of Variation (CV).	Associate Professor Dr Yeong Wai Chung
	Recognition of Activities by An Elderly in a Smart Home.	Dr Gan Chew Peng

**School of Medical and Life Sciences was awarded a total of RM 703,000 for the following projects:**

DEPARTMENT/CENTRE	TITLE OF RESEARCH PROJECT	PRINCIPAL INVESTIGATOR
<b>Biological Sciences</b>	Can I Recycle This? A Psychoeducational and Behavioral Analysis Intervention on Plastic Recycling.	Dr Gew Lai Ti
	Anti-Acanthamoeba Activity of Synthetic Benzothiazines for the Development of Novel Therapeutic Agents.	Dr Ayaz Anwar
	Characterization of Modulator of Apoptosis 1 (MOAP-1) Protein in Oxidative Stress-Induced Neuronal Cell Death: Therapeutic Implications for Neurological Diseases.	Dr Amar Daud Iskandar Bin Abdullah
	Differential Analysis of Intestinal Microbiota and its Relationship to Different Incidence and Clinicopathological Features of Colorectal Cancer among the Multiethnic Patients in Malaysia.	Dr Lau Tze Pheng
	Elucidating the Seed Dispersal Potential of Hornbills to Maintain Healthy Forests in Sabah, Malaysia.	Dr Ravinder Kaur Kirpal Singh
	Evaluating the Ecological and Economic Importance of Threatened Fruit Bats to Develop Evidence-based Recommendations for their Conservation in Peninsular Malaysia.	Professor Gopalamy Reuben Clements
	Ingested or Inhaled Arginine Kinase Allergens Among Allergic Patients: What is the Clinical Implication?	Associate Professor Dr Kavita Reginald
	Investigating the Antibacterial Mechanism of Action of Novel Bismuth(III) Dithiocarbamate Compounds.	Associate Professor Dr Chew Jactty

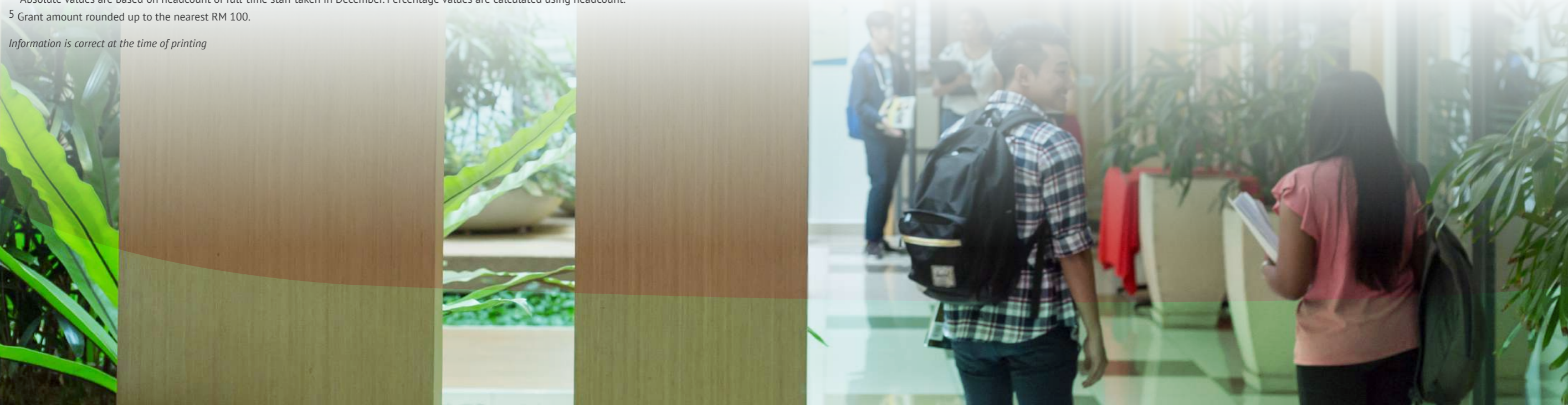
	Obesogenic Environment and Psychological Determinants of Appetite Control and Obesity among Malaysians.	Dr Say Yee How
	Discovery of Microbial-Derived Early Biomarkers to Predict the Responsiveness to Allergen Immunotherapy in Allergic Rhinitis Patients With Atopic Dermatitis.	Dr Ser Hooi Leng
<b>Centre for Virus and Vaccine Research</b>	Unravelling the Anti-dengue Effects of Selected Withanolides of Withania Somnifera Using in Vitro Infectivity Assays and in Silico Analysis.	Dr Wu Yuan Seng
<b>Medical Sciences</b>	Factors Associated with Building Resiliency Among Individuals with Rheumatoid Arthritis: a Mixed-method Study of Malaysian.	Associate Professor Dr Ooi Pei Boon
	Impact of COVID-19-related Measures on Hepatocellular Carcinoma Management and Patient Presentation.	Associate Professor Dr Felicia Chung Fei Lei
	Impact of COVID-19-related Measures on Hepatocellular Carcinoma Management and Patient Presentation.	Professor Datin Dr Chia Yook Chin
	Investigation of Stiffness, Transcytosis and Anticancer Action of Chitosan (CS) Nanogel Loaded With Doxorubicin (DXB) Using in Vitro Glioblastoma (GBM) Culture Model.	Associate Professor Dr Teow Sin Yeang
<b>Psychology</b>	Career Adaptability as a Mediator of Environmental and Individual Differences and Career Attitudes and Perceived Employability.	Dr Alia Azalea
	Is a Picture Worth the Same Words and Emotions Everywhere? Validation of Images From the Nencki Affective Picture System for Use in Malaysia.	Dr Elizaveta Berezina
<b>Research Centre for Crystalline Materials</b>	Evaluation of Thiourea Derivatives as Potential Anti-dengue Therapeutics by in Vitro and in Silico Approaches.	Dr Tan Sang Loon
	Unprecedented Structural and Polymorphism Study of Cocrystals of Trialkyl/arylphosphanogold(I) n-mercaptobenzoates (for n = 2, 3 and 4) and Bipyridyl Molecules.	Dr Yeo Chien Ing

# School Highlights

	 ARTS	 BUSINESS	 ENGINEERING & TECHNOLOGY	 HOSPITALITY & SERVICE MANAGEMENT	 MATHEMATICAL SCIENCES	 MEDICAL & LIFE SCIENCES	 INTERDISCIPLINARY STUDIES
<b>Employed by graduation<sup>1</sup></b>	95%	94%	94%	87%	98%	98%	N/A
<b>Graduates earning above RM3,000<sup>2</sup></b>	26%	38%	64%	20%	50%	26%	N/A
<b>New students<sup>3</sup></b>	446	1,213	565	287	189	346	172
<b>Total enrolment<sup>3</sup></b>	1,174	3,376	1,540	658	537	1,061	378
<b>International students<sup>3</sup></b>	17%	10%	12%	28%	6%	11%	22%
<b>Total staff</b> AC: Academic <sup>4</sup> AD: Administrative <sup>4</sup> INT: International staff <sup>4</sup>	46 AC 14 AD 15% INT	96 AC 20 AD 23% INT	45 AC 16 AD 25% INT	28 AC 11 AD 8% INT	19 AC 5 AD 4% INT	74 AC 17 AD 8% INT	55 AC 14 AD 6% INT
<b>Internal grants awarded<sup>5</sup></b>	RM172,100	RM147,200	RM711,900	RM36,200	RM74,900	RM703,000	RM104,100
<b>External grants awarded<sup>5</sup></b>	Nil	RM146,000	RM542,800	RM31,000	Nil	RM731,100	RM50,900
<b>Graduates (all)</b>	298	945	332	282	157	281	35
<b>Class I &amp; II(I) (Bachelor's only)</b>	89%	61%	88%	73%	66%	87%	N/A
<b>New Programmes Launched</b>			<ul style="list-style-type: none"> <li>Master of Data Science</li> <li>Bachelor of Chemical Engineering with Honours</li> </ul>	<ul style="list-style-type: none"> <li>Doctor of Philosophy in Hospitality and Tourism</li> </ul>		<ul style="list-style-type: none"> <li>Post Graduate Certificate in Higher Education Practice</li> </ul>	

<sup>1</sup> Based on 2022 data extracted from MOHE Tracer study portal in May 2023 (Number of Bachelor's & Diploma graduates who were employed full time or part time at time of survey, divided by total respondents available for work)  
<sup>2</sup> Based on 2022 data extracted from MOHE Tracer study portal in May 2023 (Number of Bachelor's graduates earning above RM 3000, divided by Number of Bachelor's graduates who provided income information)  
<sup>3</sup> Absolute values are based on headcount of full-time and part-time students taken in December. Percentage values are calculated using headcount.  
<sup>4</sup> Absolute values are based on headcount of full-time staff taken in December. Percentage values are calculated using headcount.  
<sup>5</sup> Grant amount rounded up to the nearest RM 100.

Information is correct at the time of printing



# Student Highlights

## STUDENT EXPERIENCE

The following is a list of Cultural & Exchange Programmes held together with partner universities during the year.

DATE	PROGRAMME	INSTITUTION & COUNTRY
1 March	<b>MY Journey Episode #1 – Manglish: Malaysian English at its Wackiest</b> (Virtual Event)	Tanjungpura University, Indonesia Petra Christian University, Indonesia University of Pannonia, Hungary Lancaster University, United Kingdom
12 - 16 April	<b>International Hospitality Exchange, IHX</b> (Virtual Exchange)	Ton Duc Thang University, Vietnam
19 May	<b>MY Journey Episode #2 – MY Playlist: A Brief History of Popular Music in Malaysia</b> (Virtual Event)	Tanjungpura University, Indonesia Petra Christian University, Indonesia
9 & 16 June	<b>Conversation Buddies</b> (Virtual Event)	Reitaku University, Japan
20 June – 16 July	<b>Malaysia: Sustainability &amp; Culture</b> (4-week inbound programme)	Falmouth University, United Kingdom Lancaster University, United Kingdom
1 – 19 August	<b>Lancaster University Summer School</b> (3-week outbound programme)	Lancaster University, United Kingdom
3 & 10 November	<b>Conversation Buddies</b> (Virtual Event)	Reitaku University, Japan
6 – 7 November	<b>Cross Cultural Interactive &amp; Summer School Programme</b> (2-day inbound programme)	Tanjungpura University, Indonesia



# CAREER HUB

## STUDENT BAROMETER

The i-Graduate's Student Barometer provides a global benchmark for student experience by tracking and benchmarking student and stakeholder opinion across the entire student journey. For the most recent survey wave, held towards the fourth quarter of 2022, Sunway emerged #1 in Asia and #1 in Malaysia in the following categories:

# #1 IN ASIA

- Overall Satisfaction 94.3%
- Laboratories
- Careers Fairs / Networking Opportunities
- Career Support
- Overall Happiness
- Career Goal Preparation



# #1 IN MALAYSIA

- Overall Satisfaction 94.3%

### LEARNING

- Learning Overall

### FACILITIES

- Laboratories
- Online Study Materials

### ONLINE LEARNING

- Online Learning Resources and Library Facilities

### LIVING

- Living Overall
- Social Facilities
- Eco-friendly Attitude
- The Surroundings Outside the Institution
- The Transport Links to Other Places
- Transport Between University Locations

### SUPPORT

- Postgraduate Support
- Financial Services
- IT Services
- Student Council

### CAREER SUPPORT

- Careers Fairs / Networking Opportunities
- Employment Support

### OTHERS

- Overall Happiness
- Career Goal Preparation

# Scholarly Activities

DATE	SPEAKER	TOPIC
4 JUL	<b>Professor Andy Schofield</b>   <i>FInstP</i> Vice Chancellor and Professor of Theoretical Physics, Lancaster University	Emergence: Beyond the Theory of Everything
19 JUL	<b>Professor Salmaan Keshavjee</b> Professor of Global Health and Social Medicine, Director, Center for Global Health Delivery, Harvard Medical School	A Lecture on Zero Tuberculosis: Why Eliminating Tuberculosis Matters for Global Health
	<b>Professor Mercedes C. Becerra</b> Jeffrey Cheah Professor of Global Health and Social Medicine, Harvard Medical School	Insights from Childhood Tuberculosis
9 AUG	<b>Professor Ken Smith</b>   <i>FMedSci</i> Head of the Department of Medicine, University of Cambridge	The Jeffrey Cheah Biomedical Centre and the Cambridge Rapid Response to the SARS- CoV-2 Pandemic
9 SEP	<b>Professor Steffen Lehmann</b> Professor of Architecture & Urbanism, Founding Director, Urban Futures Lab, University of Nevada, Las Vegas	What Matters Now. The Next-Generation City: Healthy, Green, and Resilient
22 SEP	<b>Ruby Yang</b> Hung Leung Hau Ling Distinguished Fellow (The University of Hong Kong, 2013) Adjunct Professor, Journalism and Media Studies Centre, The University of Hong Kong	Documentary as a Form of Untold Stories or Stories That Needed to Be Told
31 OCT	<b>Professor David Cardwell</b>   <i>FREng</i> Pro-Vice-Chancellor (Strategy & Planning), University of Cambridge	Bulk Superconductors: Revolution or Red Herring?
10 NOV	<b>Dr Zdenko Herceg</b> Head, Branch of Epigenomics and Mechanisms, International Agency for Research on Cancer (IARC-WHO)	Nature vs Nurture: The Influence of Environmental Stressors on Cancer Risk and How Your Genes Work
1 DEC	<b>Professor John Todd</b>   <i>FRS, FMedSci, FRCP (Hon)</i> Jeffrey Cheah Fellow in Medicine, Brasenose College, University of Oxford; Professor of Precision Medicine, University of Oxford; Director, Wellcome Centre for Human Genetics; and Director, JDRF/Wellcome Diabetes and Inflammation Laboratory	Precision Medicine – What Does it Mean for Drug Development and Disease Prevention?



18 FEB

**The MOU – Why It Will Transform Malaysian Politics**

Hybrid Seminar  
(in collaboration with The Asian Strategy and Leadership Institute)

27-28 AUG

**The 17<sup>th</sup> East Asia Economic Association (EAEA) International Convention**

**Growth, Resilience and Sustainability: Asian Dynamism in an Uncertain World**

International Convention  
(in collaboration with The East Asian Economic Association and The Malaysian Economic Association)



13-14 JAN

**SDGs for Indigenous Peoples Stakeholder and Advocacy Roundtable**

Roundtable Discussion  
(in collaboration with World Wide Fund for Nature)

10 FEB

**SDG Webinar Series: Quality TVET Education for the Future - A Supply & Demand Perspective**

Webinar  
(in collaboration with Economic Planning Unit, Malaysia)

10 MAR

**Beyond Growth: Financing Sustainability to Build Back Better**

Book Launch and Webinar Panel Discussion  
(in collaboration with The Institute for Capital Market Research, Malaysia)

11 APR

**Accelerating Progress on SDGs in Malaysia: A Conversation with Professor Jeffrey Sachs**

Hybrid Dialogue Session  
(in collaboration with United Nations Country Team)

28 APR

**National Solutions Forum 2022**

Forum  
(in collaboration with Sunway Group)

09 AUG

**The Look East Policy in Present Turbulent Times**

Hybrid Public Lecture

09 SEP

**Consequences of Russia's Invasion and Sanctions**

Public Lecture  
(in collaboration with The Malaysian Economic Association)

23 AUG

**SDG Webinar Series: The Future of Work and Talent for a Future Malaysian Economy**

Webinar  
(in collaboration with Economic Planning Unit, Malaysia)



# Internationalisation Highlights



## THE SUNWAY-LANCASTER PARTNERSHIP

In 2006, Sunway University (the then Sunway University College) established its partnership with Lancaster University and celebrated its 15<sup>th</sup> year anniversary of partnership in 2021/2022. From an initial graduating cohort of six students in 2008, today we have more than 6,000 students enrolled in a comprehensive range of programmes; whereby after completion of their degree programmes, students are awarded certificates from both, Sunway University and Lancaster University. The collaboration has helped to establish both institutions domestically as well as expand its international network and impact.

The Sunway University-Lancaster University partnership has emerged as one of the world's most successful transnational higher educational partnerships. According to the UK's Higher Education Statistics Agency (HESA) Aggregate Offshore Record, for the latest three academic years where data is available, 2019/20, 2020/21 and 2021/22, Lancaster University has recorded the largest number of transnational education enrolments in Malaysia, among all UK higher education institutions. This makes the Sunway-Lancaster partnership the largest UK-Malaysia Transnational Education (TNE) partnership. In 2021/22, the partnership accounted for 15.8% of all the UK TNE enrolments in Malaysia.



As the partnership between both institutions matures towards two decades of collaboration, the nature of the partnership that was solely focused on teaching has also transformed holistically to extend to research engagement and service impact to the quadruple helix of policy-industry-academia-society nexus. The Sunway-Lancaster partnership has and continues to promote its tripartite mission of Education, Research and Service.



**KEY:**  
 🔍 Research / Academic Collaboration  
 🎓 Student Mobility  
 ↻ Articulation

UNIVERSITY	COUNTRY	TYPE OF COLLABORATION
Manipal University Jaipur	India	Research Collaboration
Saveetha Institute of Medical and Technical Science	India	Research Collaboration
Ambarrukmo Tourism Institute (STIPRAM)	Indonesia	Academic Collaboration Student Mobility
Telkom University	Indonesia	Academic Collaboration Student Mobility
Universitas 17 Agustus 1945 Jakarta	Indonesia	Academic Collaboration Student Mobility
Universitas Haji Sumatera Utara Medan	Indonesia	Academic Collaboration Student Mobility
Center For Industry, SME And Business Competition Studies, Universitas Trisakti	Indonesia	Research Collaboration
Saitama University	Japan	Research Collaboration
University of Technology Sarawak	Malaysia	Research Collaboration
Xiamen University Malaysia	Malaysia	Research Collaboration
The University of Waikato	New Zealand	Academic Collaborations Research Collaboration Articulation Student Mobility
Federal University of Agriculture	Nigeria	Research Collaboration
Iloilo Science and Technology University	Philippines	Research Collaboration
Mahidol University	Thailand	Research Collaboration
Anadolu University	Turkiye	Academic Collaboration Student Mobility
Birmingham City University	United Kingdom	Articulation Student Mobility
University of Leeds	United Kingdom	Academic Collaboration Articulation
Teesside University	United Kingdom	Research Collaboration
The University of West Alabama	United States	Articulation
Bukhara State University	Uzbekistan	Academic Collaboration
VNU University of Social Sciences and Humanities	Vietnam	Research Collaboration

**NEW PARTNERSHIPS FORGED**

UNIVERSITY	COUNTRY	TYPE OF COLLABORATION
Universiti Teknologi Brunei	Brunei Darussalam	Research Collaboration
CamEd Business School	Cambodia	Academic Collaboration Student Mobility
North China University of Water Resources and Electric Power	China	Research Collaboration
Shandong Technology and Business University	China	Academic Collaboration Student Mobility
University of Miskolc	Hungary	Academic Collaboration Student Mobility
University of Nyiregyháza	Hungary	Academic Collaboration Student Mobility
Institute for Soil Sciences and Agricultural Chemistry	Hungary	Research Collaboration
KPR Institute of Engineering and Technology	India	Academic Collaboration Research Collaboration
KPR College of Arts Science and Research	India	Academic Collaboration Research Collaboration

# Senior Appointments

## NEW SENIOR HIRES

**Professor Alexandre Rene Schaefer**  
Head - Ageing Health and Well-Being  
Research Centre  
Date of appointment: 03 January

**Professor Muslim Amin**  
Department of Marketing Strategy and Innovation  
Date of appointment: 03 January

**Professor Matthew Ronald Marshall**  
Dean - School of Arts  
Date of appointment: 06 January

**Professor Snezana Panovska**  
Director - Sunway Conservatoire of Music  
Date of appointment: 01 March

**Professor Abhimanyu Veerakumarasivam**  
Provost  
Date of appointment: 01 April

**Associate Professor Dr Foo Yee Boon**  
Head - Department of Accounting  
Date of appointment: 06 April

**Professor Motoki Watabe**  
Head - Department Of Management  
Date of appointment: 05 May

**Professor Dato' Dr Mazlin Mokhtar**  
Sustainable Development Solutions  
Network Asia  
Date of appointment: 01 June

**Professor Elilarasu Renganathan**  
Professor of Public Health and Policy  
Date of appointment: 03 August

**Professor Lim Weng Marc**  
Dean - Sunway Business School  
Date of appointment: 01 September

**Professor Satish Narayana Namasivayam**  
Department of Engineering  
Date of appointment: 11 October

**Professor Raja Affendi Bin Raja Ali**  
Dean - School of Medical and Life Sciences  
Date of appointment: 18 October

**Professor Long Chiau Ming**  
Associate Dean (Research and Postgraduate  
Studies) - School of Medical And Life Sciences  
Date of appointment: 13 December

## NEW ADJUNCT AND VISITING PROFESSORS

### *School of Engineering and Technology*

**Mark Antony Hill**  
01 July 2022 - 31 December 2025

**Melanie Ooi Po-Leen**  
03 January 2022 - 31 December 2023

### *School of Hospitality and Service Management*

**Michael John Hitchcock**  
01 September 2022 - 29 September 2022

### *School of Mathematical Sciences*

**Stefan Wolfgang Pickl**  
01 April 2022 - 31 March 2025

**Zudi Lu**  
01 April 2022 - 31 March 2025

### *School of Medical and Life Sciences*

**Chow Sook Khuan**  
01 October 2022 - 31 December 2025

**Jiri Zavadil**  
01 March 2022 - 31 December 2025

**Leong Chee Onn**  
01 March 2022 - 31 December 2025

**Wong Chieh Lee**  
01 October 2022 - 31 December 2025

### *Sunway Business School*

**Matthew Tan Wei Meng**  
01 March 2022 - 29 February 2024

**Satish Kumar**  
01 December 2022 - 30 June 2023

### *Sunway Centre for Planetary Health*

**Tan Sri Dr Zakri Abdul Hamid**  
01 October 2022 - 31 December 2025

# Investing in the Future



## LIBRARY

Sunway Campus Library is now **Tun Hussein Onn Sunway Library.**

### Post Pandemic

760,595 in 2022



89,782 in 2021

Library opening hours reverted to the usual hours prior to the pandemic resulting in a tremendous increase in library entries by more than **700%**.



Rearrangement of seating layout increased the seating capacity from **750 to 1244**.



39% of the titles in the Reading Lists procured in e-format, **↑4%** from 2021.



A-synchronous video was produced to welcome postgraduates during Orientation Week.



'Ask a Librarian' online service was introduced.

### New Initiatives



*Shelf-Reading ROBOT Project*, a collaboration project between the Library and the Department of Computing & Information Systems successfully completed the 1<sup>st</sup> Phase, to enhance shelving capabilities in lesser time.



The *Postgraduate Hub* is a dedicated space for postgraduates, with two individual rooms. Consultation services and library research workshops are conducted here.

### Impact on Campus Society

- The library held three thematic exhibitions.



'Planetary Health' from 20 July to 22 August 2022



'Campus with a Conscience Local Action for Global Goals 2022' from 19 to 23 September



'General Elections in Malaysia' from 10 to 25 November 2022

- Displays and tours for 14 MQA/PQR visits.
- Successfully completed Surveillance Audit SIRIM ISO9001:2015 without any non-compliance.




## Support for Research

- Acquired SCOPUS database in April 2022.
- Individual Consultation Service for postgraduates / post-doctorals.
- Workshops created for researchers, 'Creating Researcher Profiles' and 'Strategic Search for Information'.
- Enabled access to Open Access E-Books, E-Journals, and E-Databases from reputed publishers and societies.
- Document Delivery Service for staff and students increased by 86% from the previous year.

## Library Membership

8,684   
Students

302   
Academic Staff

82   
Administrative Staff

## Collection and Usage

270,567   
E-books

72,911   
E-journals

241   
subscribed + open access databases

1 million   
e-dissertations

60,000   
e-videos




Total **1,403,719** e-titles

110,044   
print titles

146,340   
e-textbooks downloads +6.42%

1,593,471   
e-article downloads +38.6%

26,358   
physical loans +28.75%

884   
new book titles acquired

## Data and Technology

- A reading list of 1,545 subjects was uploaded for 66 programmes in the University.
- There were 19,563 views for the Reading List database.
- The Sunway Institutional Repository registered a cumulative total of 1,715 staff research works.
- Total logins through Open Athens Authentication was 107,556.

## People

- 5,743 University students attended 163 literacy skills workshops.
- 41 workshops were for postgraduates.
- 'Meet the Academics' sessions with School of Hospitality and Service Management, Centre for English Language Studies, Departments of Nursing, Psychology, Medical Sciences, Computing & Information Systems.
- 67 academic staff attended the 'Exploring Library Resources for Teaching & Learning' workshops.
- 298 students participated in the physical Library tours.

## FACILITIES

With physical distancing removed, mask-wearing was still made compulsory during the year, but aside from that, all other forms of campus activities resumed. This includes renovations of the chemical and photonic laboratories of the School of Engineering and Technology to improve the current facility. In line with Sunway's endeavours to constantly improve the teaching and learning experience, new lecture recording rooms, hybrid classrooms as well as collaborative learning classrooms were created. The developments at South Quay Square, where the University's Performing Arts Centre will be housed alongside the Business School, also progressed well during the year.

### LECTURE RECORDING ROOMS



### COLLABORATIVE CLASSROOMS



### HYBRID CLASSROOMS



### CHEMICAL LABORATORY

Main Chemical Laboratory



Instrumentation Laboratory



### PHOTONIC LABORATORY



# Campus Sustainability

2022 saw the campus-wide sustainability efforts through the Smart Sustainable Campus Committee (SSSC) being re-branded as 'Campus with A Conscience' (CWAC). With this rebrand, ongoing activities such as the CWAC Live Webinar Series as well as the annual United Nations Sustainable Development Goals (UNSDGs) anniversary event continued to thrive. This year, the week-long United Nations Global Campaign of Local Action for Global Goals 2022 in conjunction with the worldwide 7<sup>th</sup> Anniversary of the launch of the UNSDGs, celebrated all campus-wide SDG initiatives. The events were open to the surrounding local community so that they may better appreciate the University's sustainability efforts.



## Education

CWAC successfully developed and launched an online SDG Education Course campus-wide in partnership with the SDG Academy. The course is designed to strengthen our staff and students' foundational understanding of the United Nations 2030 Agenda and its 17 SDGs.

Aside from educating staff and students on campus, new hires were also introduced to the concept of sustainability through the development of a board game 'Are you the Master of Sustainability' which was incorporated into the new hires' orientation programme. New recruits are expected to learn about Environmental, Social, and Governance (ESG) and SDGs, to prepare them on their career journey with Sunway. The board game was designed and developed by Sunway University's staff from the Jeffrey Sachs Centre for Sustainable Development (JSC) as well as the students of the Master in Sustainable Development Management, to help educate players on the need to find solutions to some of the most pressing social and environmental issues in Malaysia and the World today.



## Leadership

In conjunction with International Women's Day 2022, the University celebrated female scientists who have contributed significantly to making the institution one of Malaysia's top-cited private research universities. The University has played a leading role in recognising and acknowledging the role of female scientists in the nation and the World in addressing global challenges and impact. Sunway University has female scientists across various sectors such as Engineering and Technology, Arts, Medical and Life Sciences, Hospitality and Service Management, Mathematical Sciences, Business, English Language and Sustainable Development.



## Research

The Sunway Materials Smart Science and Engineering Cluster (SMS2E) launched the food waste project to better address SDG 12: Responsible Consumption and Production. This project has been put together by the efforts of professionals from various disciplines including chefs, psychologists, scientists, engineers, social scientists, and economists. The University is committed to repurposing food waste by converting it into value-added products, with composting being one of the solutions.



Sunway University researchers from the Graphene and Advanced 2D Materials Research Group (GAMRG) worked on a proprietary heat transfer nanofluid which has improved energy efficiency in industrial applications and reduced daily energy consumption by up to 10 per cent (kWh). The nano-fluid results in almost 40 per cent faster heat transfer; transferring the same amount of heat in a much shorter time. Chillers are one of the largest electricity consumers in a building and could consume up to 40 per cent of a building's total energy use in commercial and industrial buildings. The pilot trial of graphene-based nano-fluid in industrial chillers was a joint project together with Daikin Refrigeration Malaysia Sdn. Bhd. and Sunway Innovation Lab (iLabs).



## Stewardship

The Start-up Foundry, an entrepreneurship programme launched by Sunway Innovation Labs (iLabs) in collaboration with the School of Engineering and Technology, through their Launch X incubator programme successfully assisted several start-ups by connecting them with mentors, speakers, and participants from different start-ups teams. Among the start-ups that benefited from this programme were those founded by our very own alumni - Greenbox, the first manufacturing company in Malaysia that produces boxes from agro-waste and OPACK, a smart returnable container logistics system for businesses to reduce single-use plastic packaging.

# Prizes, Awards and Achievements



American Degree Transfer Program students **Duong Tan Khang**, **Yew Shun** and **Tan Khye Shen Regan** from team 'The Boys' won the Speak Up! English Eloquence Contest 2022 hosted by Dong Nai Technology University and ASEAN P2A International.



**Professor Dr Chia Yook Chin** from the Department of Medical Sciences was awarded the 2022 World Hypertension League's (WHL) Graham MacGregor Excellence Award in Dietary Salt Reduction at the Population Level. She was also awarded International Society of Hypertension (ISH) Honour for Senior Women Researcher in 2022.



**Shireen Ali Fahad Qassem Abi Nejra**, BSc (Hons) Biomedicine student was Asia's 5<sup>th</sup> Best Debater at the 2022 Asia British Parliamentary Championships. Shireen was also the 9<sup>th</sup> Best Debater in Asia at the United Asians Debating Championship 2022.



Department of Communication organised a UNITY Flashmob that made it into the Malaysia Book of Records for The Most Number of Flashmob Dance in Multiple Locations Simultaneously. The UNITY Flashmob was organised to promote unity and togetherness among the members of Sunway Community.



**Alina Wong Jinkei**, **Raja Adam**, **Jared Wee**, **Ariff Adam**, **Ng Khai Xuan**, **Zehn Wu**, **Ruth Peter**, **Leon Yong**, **Tan Yik**, **Christopher Koh**, **Sheldon Chong**, **Vincent Ho**, **Kalina Cheng**, **Sabrina Alexander**, **Al Hussain Abdul Majeed** and **Patrick Ng** students from BA (Hons) Digital Film Production (DFP) won the Best Student Short Film Award for 'Ms Pontianak' at the 18<sup>th</sup> UNIMAS Mini Film Festival 2022 - the longest-running short film festival in Malaysia.

MSc in Actuarial Science student **Shahmalarani Chandran** won gold medal in the Women's Karate Kumite below 50kg event at the 2022 SEA Games in Vietnam.



BSc (Hons) in Actuarial Studies student **Nicholas Cheong Yeow Hoe** and **Ong Huai Zheng** were recipients of the prestigious Sir Edward Johnston Prize 2022. The Sir Edward Johnston Prize is awarded to the best performing graduating students on the actuarial programmes at universities which are linked to the Institute and Faculty of Actuaries (IFoA), UK.



**Professor David Bradley** from the Centre for Applied Physics and Radiation Technologies has been made a Consultant to the Saudi Food and Drug Authority (SFDA), supporting The United Nations Development Programme project on national dose reference levels (NDRLs) arising from diagnostic imaging procedures.

BSc (Hons) Conventions and Events Management students **Boo Su Ting**, **Jackson Lim**, **Lee Lit Thung** and **Moh Jing Yi** were the 2<sup>nd</sup> Runners-up at the Asian Federation of Exhibition and Convention Associations (AFECA) Asia Meetings, Incentives, Conferences & Exhibitions (MICE) Youth Challenge 2022.



**Dr Norshahirah Binti Mohamad Saidi** from the Graphene and Advanced 2D Materials Research Group was selected as one of the 600 most qualified young scientists to participate in the 71<sup>st</sup> Lindau Nobel Laureate Meeting as a nominee of the Global Young Academy in Germany.



**Yee Suet Rene**, **Chong Xin Ye**, **Siow Yong Kong**, **Mikhail Wong Wai Kit**, **Kiong Lian Chai**, **Norhafizatul Akma Hamzah** and **Nur Fadillah Saidin** from the School of Hospitality and Service Management won three Gold and three Silver medals at the Battle of the Chefs 2022, held in Penang, Malaysia.



**Associate Professor Dr Arshian Sharif** was listed in the Global List of Highly Cited Researchers by Clarivate's Web of Science.



Mentored by **Mr Tan Seng Lee**, Team GoStrong made up of BSc (Hons) in Accounting and Finance students, **Tan Yi Fang**, **Lee Jia Min** and **Ng Fen Ying** became the First Runner-Up in the Deloitte Audit Business Challenge 2022.



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