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# WHY STUDY AT SUNWAY UNIVERSITY?

## SUNWAY IS ONE OF THE TOP 150 UNIVERSITIES IN THE WORLD UNDER 50 YEARS OLD

As one of Malaysia's leading and internationally recognised private universities, Sunway University is positioned amongst top universities in the world by QS World University Rankings. Sunway University is ranked #601-650 in the QS World University Rankings 2023 and is the #1 non-government linked private university in Malaysia in the Times Higher Education World University Rankings 2023.

Sunway University has been awarded #1 in Graduate Employability among all universities in Malaysia by Talentbank Group through the National Graduate Employability Index.

The University emerged as an Overall 5 Star rated (Excellent) institution in the QS Stars University Ratings, as well as Five-Star ratings for the individual categories: teaching, facilities, employability, social responsibility, inclusiveness, academic development and internationalisation.

Collaborating with world class partners - Lancaster University and Le Cordon Bleu International, Sunway University offers premier education with international repute. The University also partners University of Oxford, University of Cambridge, Harvard University, Massachusetts Institute of Technology and University of California, Berkeley.

## MALAYSIA'S #1 NON-GLU\* PRIVATE UNIVERSITY as awarded by



\*Government-Linked University



EXCELLENT



Industry-relevant and job-ready programmes and curriculum



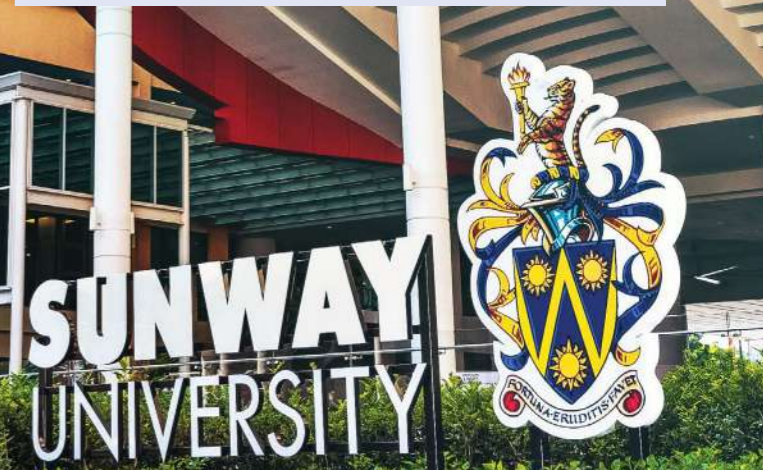
Numerous research centres and research collaborations with leading international universities



Abundant networking opportunities with renowned lecturers, distinguished research supervisors and industry experts



Flexible full-time and part-time study modes to accommodate your schedules



# THE JEFFREY SACHS CENTER



United Nations chosen destination for Sustainable Development Goals in Asia

## THE JEFFREY SACHS CENTER

The Jeffrey Sachs Center on Sustainable Development (JSC) tackles the sustainability agenda through education, training, research, and policy advisory. As the Asian base of the United Nations Sustainable Development Solutions Network, JSC is a hub of research and policy practice, delivering world-class programmes to train students, practitioners and policy leaders on sustainable initiatives while working in collaboration with industries, agencies, government bodies and universities worldwide.

JSC was established through a contribution by the Jeffrey Cheah Foundation – the biggest of its kind towards advancing the 17 Sustainable Development Goals. The Center operates under the supervision of Professor Jeffrey D. Sachs, one of the world’s leading experts in sustainable development.

## SUNWAY UNIVERSITY

Sunway University is dedicated to championing sustainability on and around campus, and to nurturing a community of socially and ecologically responsible individuals. The campus is strategically located in Sunway City, Malaysia’s first integrated green township to be certified by the Green Building Index.

The Sunway City township was transformed from a tin mining wasteland to a sustainability model for other townships nationally and regionally. It has also been recognised as a Top Smart City Initiative in the Asia Pacific region and an Integrated Smart and Low-Carbon Township by IDC Government Insights in 2017.

The student experience at Sunway University has many benefits including green spaces and environment-friendly infrastructure such as elevated canopy walkways, convenient public transportation and bio-diversified theme parks – all of which are situated in a pollution-free area.

From practical initiatives such as the biannual e-Waste Disposal Campaign and collaborations with NGOs on projects such as the Earth Warriors, to academic pursuits in carbon dioxide waste conversion and optimisation of renewable energy technology, Sunway University is committed to various activities to achieve its sustainability objectives.



## RESEARCH PROJECTS IN THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

- Generating Innovation-Based Economic Growth that is Socially Inclusive
- Sustainable Energy Technology and Systems in Malaysia
- Agriculture Modernisation
- Sustainable Management of Lakes and Estuarine Ecosystems to Overcome Catastrophic Regime Shifts
- Mangroves Vulnerability, Resilience and their Role in Climate Adaptation
- Deforestation and Biodiversity Loss
- Food, Agriculture, Biodiversity, Land Use and Energy (FABLE) in Malaysia
- Mitigation of Environmental and Climate Shocks: Towards Resilience and Sustainability
- Deep Decarbonisation Pathways for Malaysia
- Malaysia & ASEAN SDG Dashboard
- Creating Sustainable Campuses



# RESEARCH AREAS



United Nations chosen destination for Sustainable Development Goals in Asia

- Agriculture and forestry
- Biodiversity
- Bio-economy
- Climate system
- Corporate governance
- Corporate sustainability
- Decarbonisation
- Education for sustainable development
- Economics of decarbonisation
- Electoral system
- Energy systems
- Financial markets
- Global production value chain
- Green finance
- Human capital development
- Information technology
- Land-use sustainability
- Macroeconomics policies
- Marine ecology
- Modelling
- Political science
- Sustainability mindset and leadership
- Sustainable communities
- Sustainable development
- Sustainable economic development
- Social inclusion
- Supply chain
- Trade
- Transportation and mobility
- Waste management
- Water resources



## ENTRY REQUIREMENTS

PROGRAMME	ENTRY REQUIREMENTS	ENGLISH LANGUAGE REQUIREMENTS
<b>Master in Sustainable Development Management*</b>	<ul style="list-style-type: none"> <li>• A Bachelor's degree (Level 6, MQF)</li> <li>• Any other equivalent professional qualification recognised by the Malaysian government</li> </ul>	<ul style="list-style-type: none"> <li>• With a minimum CGPA of 2.50 out of 4.00, or equivalent from a recognised Institution of Higher Education, as accepted by the University's Senate</li> <li>• With a CGPA below 2.50 out of 4.00 or its equivalent qualifications can be accepted subject to a minimum of 5 years of working experience in a relevant field</li> </ul>
<b>Doctor of Philosophy (PhD) in Sustainable Development**</b>	<ul style="list-style-type: none"> <li>• A Master's degree in a related field as accepted by the HEP Senate</li> <li>• Other qualifications equivalent to a Master's degree as accepted by the HEP Senate</li> </ul>	<ul style="list-style-type: none"> <li>• IELTS : 6.0 / CEFR: B2</li> <li>• TOEFL : PBT (550) or IBT (75)</li> <li>• Cambridge English : 180 / CEFR: B2 (Advanced)</li> <li>• Cambridge English : 180 / CERF: C1 (Proficiency)</li> <li>• PTE Academic : 50</li> <li>• MUET : Band 4</li> </ul> <p><i>If a student does not meet this requirement, the HEP offers English proficiency courses to ensure that the student's proficiency is sufficient to meet the needs of the programme. This is normally conducted through an English language proficiency assessment.</i></p>

- \* **PERSONAL STATEMENT**  
State your interest in sustainable development and suitability for this programme.
- \*\* **RESEARCH STATEMENT**  
The statement should briefly describe the research question that the applicant intends to pursue and the purpose of the research.

## APPLICATION CHECKLIST

HOW TO APPLY	PROGRAMME	CONTACT
Kindly email the following documents for an eligibility check: <ul style="list-style-type: none"> <li>• Curriculum Vitae</li> <li>• Bachelor's/Master's degree transcript</li> <li>• Completion certificate</li> </ul> After passing the eligibility check, the school administrator will brief the student further regarding the application process and other documents that are required.	<b>Master in Sustainable Development Management</b>	jsc_admissions@sunway.edu.my
	<b>Doctor of Philosophy (PhD) in Sustainable Development</b>	



## SCHOLARSHIPS & BURSARIES

For more information regarding available scholarships and bursaries, please refer to [sunway.edu.my/scholarships/scholarships-awards](http://sunway.edu.my/scholarships/scholarships-awards)

\* Terms and Conditions apply

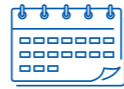
# MASTER IN SUSTAINABLE DEVELOPMENT MANAGEMENT

(Blended mode and ODL mode)



## DURATION

Minimal 12 months



## INTAKES

January, March, September



## TAUGHT PROGRAMME

## SUSTAINABLE DEVELOPMENT FOR A BETTER WORLD

The New Normal of the world of the 21st Century is characterised by global pandemic, extreme weather patterns, political populism, social inequality, loss of biodiversity, financial crisis, economic stagnation of middle-income countries, trade wars and geo-strategic competition, food contamination and food insecurity, and worsening urban blight. This New Normal prompted the United Nations in 2015 to announce the 17 Sustainable Development Goals (SDGs) as the solution to the problems of this New Normal.

The world is in desperate need of people who understand this New Normal and are able to formulate new strategies to achieve these 17 SDGs in order to ensure collective sustainability in ecological balance, economic dynamism, environmental safety, social harmony, and effective international partnerships in global health, international peace, and climate action. The Master in Sustainable Development Management (MSDM) programme at Sunway University is designed to empower individuals and organisations to develop innovative solutions to achieve these 17 SDGs.



JPT/BPPP(U) [N/345/7/1075/FA9793] 04/23 (Blended)  
JPT/BPPP(U)[N-DL/345/7/1125/PA14671]06/26 (ODL)

## CAREER PROSPECTS



Graduates from this programme will use their knowledge and skills to generate solutions in their own organisations or sectors, or they may embark on new career paths. Whether innovators, social entrepreneurs, educators, consultants, political leaders, civil society activists, writers, or policymakers, they will be agents of change for a better world.

MSDM graduates are expected to work in public, private, and non-governmental organisations at all levels.

In the corporate sector, more and more businesses are establishing sustainability divisions to spur innovations that address social and environmental needs while simultaneously improving their bottom lines. Increasingly, various indices are being created to assess and rank businesses based on their sustainability.

In the public sector, governments strive to link the economic, environmental, and social dimensions of development. The concept of Sustainable Development occupies the policy discussion in practically all sectors of government at all levels, anchored in the needs and realities of the countries and regions.

In addition to those in the UN systems, there are also a growing number of non-governmental organisations, from local to international, dedicated to promoting and attaining the 17 SDGs.

## PROGRAMME OVERVIEW:

The Master in Sustainable Development Management (MSDM) at the Jeffrey Sachs Center aims to create a new generation of multidisciplinary practitioners adept at management and problem-solving using analytics and systems thinking guided by global concerns.

The programme aims to equip students with necessary management skills and acumen to create innovative solutions to achieve the Sustainable Development Goals (SDGs). It encompasses corporate sustainability strategies, social entrepreneurship, finance and sustainability, sustainable management and operations, as well as economics and development. This is built upon a broad knowledge base that covered critical areas like climate change, waste management, energy systems, agriculture and food systems, forestry, and biodiversity.

Students are not only exposed to theories and concepts but also real-world practices and case studies to gain a holistic understanding of the opportunities and challenges to achieving the SDGs in scientific, economic, business, and technological aspects.

The MSDM programme has two modes for delivery of instruction:

1. **Blended mode (Track 1) – In-person classes, OR**
2. **ODL mode (Track 2) – Fully online**

## PROGRAMME STRUCTURE

Students are required to complete 10 core courses, including Research Projects I & II, and 4 elective courses.

### Core Courses

- Global Foundation Course: Introduction to Sustainable Development
- Earth's Climate System
- Economics of Sustainability Management
- Social Entrepreneurship and Development
- Sustainable Management and Operations
- Finance and Sustainability
- Corporate Sustainability Strategies
- Research Methods
- Research Project I
- Research Project II

### Available Electives

- Sustainable Waste Management
- Energy Systems and Management
- Sustainable Agriculture and Food Systems
- Sustainable Forestry
- Biodiversity
- Governance in Sustainable Development
- Smart Tech and IOT

### Class Schedule:

- All lectures and tutorials are held in the weekends in the daytime (Malaysia, UTC+8)

## CONTACT

For more information, please email  
[jsc\\_admissions@sunway.edu.my](mailto:jsc_admissions@sunway.edu.my)

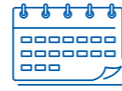


# PHD IN SUSTAINABLE DEVELOPMENT



## DURATION

- Full Time**  
3 Years (minimum), 6 Years (maximum)
- Part Time**  
4 Years (minimum), 8 Years (maximum)



## INTAKES

January, July



## RESEARCH PROGRAMME

- A full research programme focusing on key areas of sustainable development and themes outlined in the 17 sustainable development goals.
- Research topics will cover a wide range of complex issues and theories related to sustainable development, from addressing climate change and ecosystems issues to economic progress, social inclusion, sustainable management, public policies, environmental practices and governance.
- Students can select any key dimension of sustainable development and undertake in-depth research to develop insights, theories and practical solutions to help advance the sustainability goals.

## PROGRAMME STRUCTURE

For this PhD programme by Research, students are required to complete:

- Research Methods; and
- Thesis Research

## CAREER PROSPECTS



Positions in academia, industry, government and international and voluntary organisations that are pursuing the SDGs and sustainable practices.

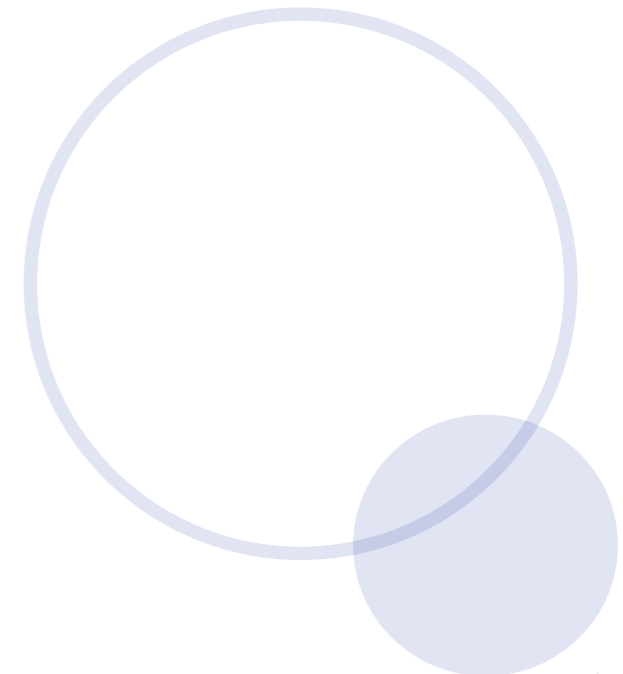


## AREAS OF RESEARCH

- Economics and sustainable development
- Finance and sustainable development
- International economics, finance and investments
- Social progress and social inclusion
- Sustainable infrastructure, transportation and mobility
- Urban sustainability
- Land-use system
- Corporate strategies and operations
- Social entrepreneurship
- Public policy and sustainable development
- Trade and sustainable development
- Solid and hazardous waste management
- Political institutions, group conflicts, and democracy
- Climate change adaptations
- Plants and food system
- Wildlife and forestry
- Environmental and ecological systems
- Mathematical modelling and simulations
- Renewable energy
- Education reform
- Smart technologies
- Sustainable tourism, hospitality and cultural heritage
- Psychology design, industrial design and creative industries
- Bio-economy development

## CONTACT

For more information, please email  
[jsc\\_admissions@sunway.edu.my](mailto:jsc_admissions@sunway.edu.my)



# WHO YOU WILL BE WORKING WITH



United Nations chosen destination for Sustainable Development Goals in Asia



## PROFESSOR JEFFREY D. SACHS

*Chairman, Jeffrey Sachs Center on Sustainable Development  
Director, UN Sustainable Development Solutions Network*

Professor Jeffrey Sachs is a University Professor and Director of the Center for Sustainable Development at Columbia University, where he directed the Earth Institute from 2002 until 2016.

He is also Director of the UN Sustainable Development Solutions Network and a commissioner of the UN Broadband Commission for Development. He has been advisor to three United Nations Secretaries-General, and currently serves as an SDG Advocate under Secretary General António Guterres. He spent over twenty years as a professor at Harvard University, where he received his B.A., M.A., and Ph.D. degrees.

He has authored numerous bestseller books. His most recent book is *Ages of Globalization: Geography, Technology, and Institutions* (2020). Sachs was twice named as Time magazine's 100 most influential world leaders, and was ranked by The Economist among the top three most influential living economist.



## DR. CHEN JIT ERN

*Head of Center, Jeffrey Sachs Center on Sustainable Development Program Leader,  
MSDM and MSDM-ODL Senior Lecturer, School of Medical and Life Sciences*

Dr. Chen heads the Jeffrey Sachs Center on Sustainable Development at Sunway University, and is the acting Programme Leader of the MSDM and MSDM-ODL.

Dr. Chen obtained his PhD in Plant Sciences from University of Cambridge. His primary research interest is in the development and utilisation of genetic engineering techniques and molecular tools on various microalgae, to study the underlying mechanisms for physiological traits such as lipid accumulation and heat tolerance.

His previous Post-Doctoral position was in KAUST, Saudi Arabia, studying the potential for increased heat-tolerance in Zooxanthellae (*Symbiodinium microadriaticum*), the photosynthetic coral endosymbiont, native to the Red Sea.

His current project in Sunway University is a continuation of this work, with a particular emphasis on the study of heat-activated Zooxanthellae retrotransposons.



## PROFESSOR LEONG CHOON HENG

*Deputy Director, Jeffrey Sachs Center on Sustainable Development  
Professor of Sociology, Environment and Sustainability*

Professor Leong teaches in the fields of sociology, public policy, transportation and logistics. At the Jeffrey Sachs Center, his research is largely in the areas of sustainable development, community participation, sustainable transportation and education delivery systems. His earlier experience includes managing a university and heading its Transportation and Logistics Program where he taught courses related to sustainable transportation and the environment.

He has also worked on policy issues at the Institute of Strategic and International Studies, which is a policy think-tank for the Malaysian government, and as consultant to several international organisations on social development, human resource development and environmental assessment.

He holds a PhD in Sociology from Harvard University and a Bachelor of Arts degree from Colby College, USA.

# WHO YOU WILL BE WORKING WITH (CONTINUED)



United Nations chosen destination for Sustainable Development Goals in Asia



## PROFESSOR AGAMUTU PARIATAMBY

*Professor, Jeffrey Sachs Center on Sustainable Development  
High Level End Foreign Expert, for the Ministry of Science and Technology, China*

Before joining the Jeffrey Sachs Center on Sustainable Development, Sunway University, Professor Agamuthu was a Senior Professor at University of Malaya for 44 years specialising in Solid and Hazardous Waste Management.

From 2018 onwards he is a Visiting Professor, at Zhejiang University of Technology, Hangzhou, China. He is also the Vice-President and International Advisory Board Member of the Society of Solid Waste Management Experts in Asia and Pacific Islands (SWAPI). Additionally, he is a Fellow of the Academy of Sciences, Malaysia. Prof Agamuthu is the Senior Editor in Chief of the Waste Management & Research international journal based in Vienna, Austria; and Editor, Journal of Material Cycles and Waste Management.

He is also a High Level End Foreign Expert for the Ministry of Science and Technology, China; and the Chairman of the Organisation for Climate Change (OFCC) and a member of the DE Tao Masters, China.



## PROFESSOR FUN WOH PENG

*Professor of Practice, Jeffrey Sachs Center on Sustainable Development*

Professor Fun's work at the Jeffrey Sachs Center on Sustainable Development is focused on low carbon power generation and transportation. Before joining the academic world, he had a long career in the automotive and manufacturing industries.

Upon completion of his Ph.D., Professor Fun joined the Ford Motor Company in Detroit as a Senior Design Engineer, and was later assign to Asia to support an R&D Joint-Venture between Ford, Mazda and Sanyo, with headquarters in Japan and manufacturing in Malaysia. After 3 years he moved on to lead Supplier Development at Ford International Business Development, Singapore. He subsequently joined a large Malaysian auto parts manufacturer where he was eventually appointed as Executive Director and Chief Corporate Representative and a member of the Board of Directors. During his tenure, revenue and net profit of the company doubled. In line with the company's desire to go global, he also set up an R&D unit to support all product development of the company.

Professor Fun holds a Bachelor and Masters degrees in Aerospace Engineering; and a Ph.D. in Electrical Engineering, from The University of Texas at Austin.



## PROFESSOR NOORUL AINUR MOHD NUR

*Professor of Practice, Jeffrey Sachs Center on Sustainable Development*

Tan Sri Prof Dr. Noorul Ainur Mohd. Nur has 38 years of experience in the Malaysian public sector and was the Secretary General of Ministry of Higher Education (2016 – 2018); Secretary General of Ministry of Science, Technology and Innovation Malaysia (2014 –2016); and Secretary General of Ministry of Women, Family and Community Development Malaysia (2010-2014).

She headed the World Trade Organisation (WTO) Unit under the Ministry of Finance Malaysia. She was also the Senior Project Coordinator at the Economics Centre at the Institute of Public Administration (INTAN), as well as an in-house lecturer on international economics, poverty, gender, globalisation and human resource development. In the international arena, she served as the Senior Advisor in the Southeast Asia Group for the World Bank in Washington D.C. (2006- 2008).

She was also the Malaysian representative to the ASEAN Commission on the Promotion and the Protection of the Rights of Women and Children (ACWC) (2010-2014). She was appointed Vice-President of Intergovernmental Council of the Management of Social Transformations Programme of UNESCO for Asia and the Pacific region (2013-2015). She also served as President of Science Commission, United Nations Educational, Scientific and Cultural Organisation (UNESCO) from 2015 to 2017.



## DR. GOH CHUN SHENG

*Research Fellow - MSDM & MSDM-ODL,  
Jeffrey Sachs Center on Sustainable Development  
Associate, Harvard University Asia Center*

Dr. Goh began his career as a researcher at Utrecht University in 2011, focusing on international trade, land-use and carbon impacts of bio-economies. Two notable projects are 'Monitoring of biomass and bioenergy trade flows in the Netherlands' with Netherlands Enterprise Agency (RVO) and 'Large-scale Investments in Food, Fibre, and Energy (LIFFE) Options for the Poor' with Centre of International Forestry Research (CIFOR). In the same period of time, he also managed the operation of IEA Bioenergy Task 40, an international working group consists of 14 member countries with the theme of 'Sustainable international bio-energy trade'.

In 2016-2017, Chun Sheng worked at Agensi Inovasi Malaysia (AIM), responsible for the execution of National Biomass Strategy 2020. He then spent two years in Tokyo as Japan Science Promotion Society (JSPS) postdoctoral fellow at United Nations University – Institute for the Advanced Studies of Sustainability (UNU-IAS) and Japan's National Institute for the Environmental Studies (NIES), followed by a 10-month fellowship at Harvard University Asia Center.



**SUNWAY**  
UNIVERSITY



A CLASS ABOVE

**MALAYSIA'S**

#1

**IN GRADUATE  
EMPLOYABILITY**

Sunway University was awarded Malaysia's No.1 in Graduate Employability\*, making our graduates officially the preferred recruitment choice of the nation's leading brands. This remarkable result highlights the excellent holistic education the university provides, ensuring our graduates are job ready and future proof.

By providing a wide variety of support, resources and guidance curated by our experienced Sunway Career Services team, we help students navigate their career pathway and become highly sought after by employers.

**Sunway University Graduates, Truly A CLASS ABOVE.**

[university.sunway.edu.my](http://university.sunway.edu.my)

