UNIVERSITI MALAYA

SUSTAINABILITY POLICY

DASAR KELESTARIAN UNIVERSITI MALAYA

2021-2030

UNIVERSITI MALAYA

THE GLOBAL GOALS

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Introduction

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The Sustainable Development Goals (SDGs), also known as Global Goals, are a set of 17 integrated and interrelated goals to end poverty, protect the planet and ensure that humanity thrive in peace and prosperity by 2030.

Universities have a unique and critical role in helping the world achieve the SDGs through research, teaching, operations and community leadership.

The Universiti Malaya's vision to become a global university impacting the world by pushing the boundaries of knowledge and nurturing aspiring leaders is incredibly relevant. These showcases our commitment to the progressive advancement of teaching and learning, impactful research and innovation, and transformation of a more sustainable approach in delivering our operations and services for the nation and its campus community. Hence, we at the Universiti Malaya is introducing this UM Sustainability Policy as our renewed commitment highlighting the importance of integration between environmental sustainability, economic feasibility, and social responsibility approach across all dimensions of the University.

SDGs provide the universities common guidance and framework to reflect the ways we operate our activities, as well as what might be our possible future. The current environmental degradation and challenges is a significant 'wake-up call' in readdressing our priorities and opportunities to make the sustainability shift at the individual, group, and institutional level a reality. We at the University of Malaya are committed to doing so.

This Universiti Malaya Sustainability Policy reflects the University's renewed commitment to continuously build upon institutional sustainability shift in achieving environmental sustainability while safeguarding the societal well-being of its members. The University is committed to realizing this sustainability shift by impacting the world through our transformative strategies on education, research, operations, and leadership. This Policy caters for members of the Universiti Malaya across all levels. The sustainability shift outlined in this Policy reminds us to comply and continuously support this policy, and set personal exemplary leadership. This is in line with our vision, mission, and core values (POISE): Passion, Oneness, Integrity, Sincerity, and Empathy.

This Policy would serve as a guiding document for all members of the Universiti Malaya to make our University a truly sustainable campus!

Message from
our Vice-Chancellor

"This policy is a 'Call for Action' to all members of the Universiti Malaya to be part of our incredible sustainability shift journey"

PROFESSOR DATO' IR. DR. MOHD. HAMDI ABD. SHUKOR
VICE-CHANCELLOR,
UNIVERSITI MALAYA
KUALA LUMPUR, MALAYSIA

We are pleased to present the Universiti Malaya Sustainability Policy 2021-2030: a set of collective commitment and support in our journey to become a global university impacting the world with an institutional focus on sustainability. The sustainability shift is to be embraced by all of us at the University: higher management, staff (academic and non-academic), students (pre-U, diploma, undergraduates and postgraduates), stakeholders and respective communities. It is important to note that the UM Community must be able to adopt, adapt, enhance and eventually replicate these sustainability shifts: best practices, action plans, goals and aspirations in their day-to-day affairs.

17 Sustainable Development Goals

5 Core Pillars

10 Years (2021 - 2030)

Low carbon solutions & sustainability shifts

At the Universiti Malaya, we believe and work collectively on the foundation that no one should be left behind. Hence, the Universiti Malaya Sustainability Policy 2021-2030 reflects our renewed commitment and support in our journey to become a truly sustainable university impacting the world by focusing on five (5) core pillars: i) Education, ii) Research, iii) Environment, iv) Economy, and v) Social. These five pillars are a set of our renewed commitments aligned with the framework of 17 Sustainable Development Goals (SDGs) and the Universiti Malaya Eco-Campus Blueprint (launched in 2016) with a focus on low carbon solutions and sustainable socioeconomic well-being.

All in all, this Policy aims:

- to reflect on what role the members could play in enhancing collective societal well-being for a more sustainable future,
- to support UM's strategy of upscaling impactful sustainability shift at all levels and dimensions,
- to serve as an institutional standard for strategic alignment across the University's fabric: all members and their activities.

We believe that this Policy would serve its purpose as a 'Call for Action' to all of us, members of the Universiti Malaya, to be part of an incredible journey at the individual, group, and institutional levels. We welcome all of you onboard to make our campus a truly sustainable university. A small or big sustainability shift, all matters. Be part of this Sustainability Shift!

UNIVERSITI MALAYA SUSTAINABILITY POLICY
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Policy Statement

Today, sustainability agenda poses both a challenge and an opportunity for all communities of the world. In Universiti Malaya, 'Sustainability Policy' is one of the core components in translating the vision and mission of Universiti Malaya to become a global university impacting the world by pushing the boundaries of knowledge and nurturing aspiring leaders. In our journey and effort to make this a reality, Universiti Malaya's sustainability approach and implementation cover all the respective pillars of sustainable development, namely the environmental sustainability performance of the university is harmonized and in tandem with the social development and economic sustainability.

Responsibility:

Universiti Malaya aspires to achieve the status of a sustainable, a balanced society and well-being, a harmony between physical and social development without neglecting the environmental protection. This is part of an initiative to minimize the impact of human activities on campus as well as embedding a sustainable culture and lifestyles within the campus community cutting across all spectrums and fabric of the University as transpired in the United Nations' 17 Sustainable Development Goals (SDGs). This requires attention, support, participation, cooperation and commitment across all levels including the University's top management, staff, students, faculties, responsibility centres (PTJs), as well as internal and external stakeholders in a holistic and inclusive manner to leave no one behind.

UM is committed to support all the 17 Sustainable Development Goals (SDGs):

SDG 1 End poverty in all its forms everywhere.

The University will ensure that all men and women, both staff and students, in particular the underprivileged and vulnerable groups, have equal rights to economic resources, as well as access to basic services, appropriate technology and financial services through its programs and policies provided by the University.

SDG 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

The University will end hunger and ensure access by all people of the University, in particular the underprivilege group, to safe, nutritious and sufficient food and also support the sustainable food production systems and agriculture through research, collaboration and programs.

SDG 3 Ensure healthy lives and promote wellbeing for all at all ages.

The University will ensure access to information, education, preventive measures, and treatment for healthcare and sport facilities services by all people of the University, both men and women, to promote and safeguard a healthy lifestyle, mental health and wellbeing.

SDG 4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

The University will ensure that all learners of the University which include the remote or long distance learners to have access to educational resources and support system to acquire the knowledge and skills needed to promote lifelong learning and sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development.

SDG 5 Achieve gender equality and empower all women and girls.

The University is committed to eliminate all forms of discrimination on gender equality by ensuring all men and women, both staff and students, have full participation and equal opportunities for leadership at all levels of decision-making.

SDG 6 Ensure availability and sustainable management of water and sanitation for all.

The University is committed to substantially increase water-use efficiency, improve water quality by reducing pollution in all forms, implement integrated water resources management across all levels, protect and restore water-related ecosystems (including hills, forests, wetlands, rivers, lakes and seas) by the means of expanding its local-and-international cooperation and capacity-building programs to strengthen the participation of local communities in improving water and sanitation management which include water reuse and recycling for the benefit of all.
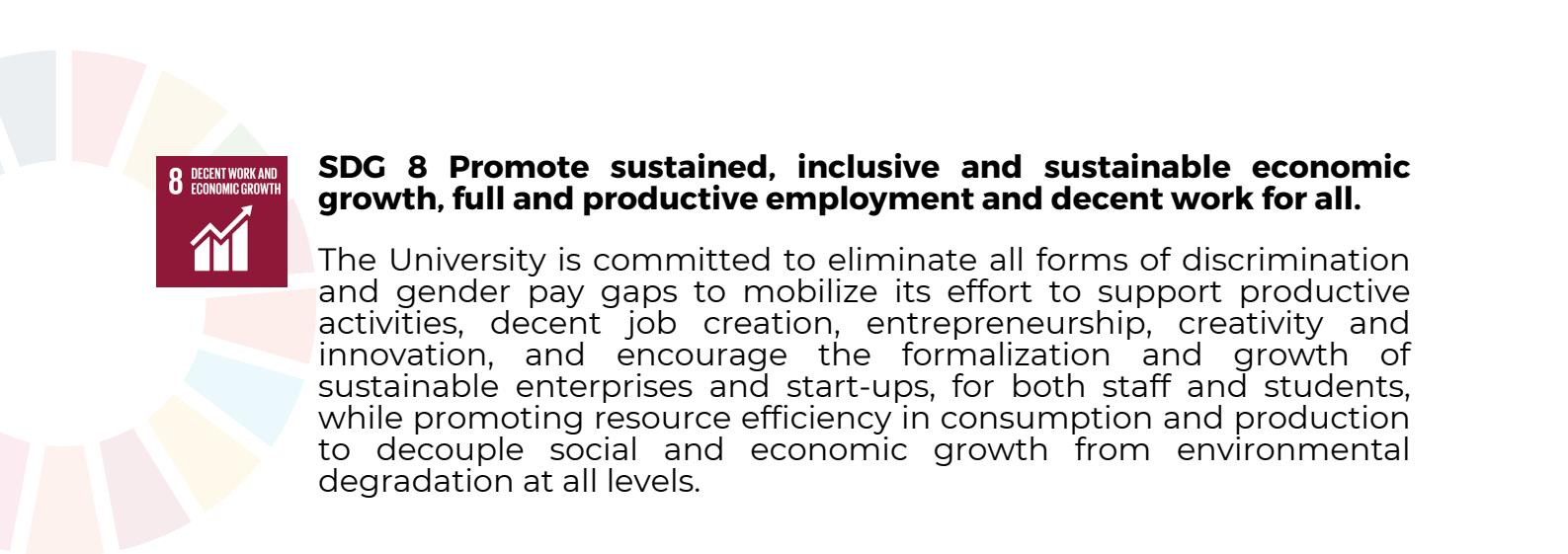
SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all.

The University is committed to substantially enhance and expand cooperation and initiatives to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology to support its aspiration to become a campus with carbon neutral status.

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UNIVERSITI MALAYA SUSTAINABILITY POLICY
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SDG 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

The University is committed to eliminate all forms of discrimination and gender pay gaps to mobilize its effort to support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of sustainable enterprises and start-ups, for both staff and students, while promoting resource efficiency in consumption and production to decouple social and economic growth from environmental degradation at all levels.

SDG 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

The University is committed to enhance scientific research, support and upgrade both in-house and external technological capabilities and partnerships, increase access to information and communications technology, encourage innovation and substantially increase the number of research and development for both public and private research and development spending for the benefits of its people to facilitate its pathway toward sustainable development.

SDG 10 Reduce inequalities for all.

The University is committed to empower and promote social and economic inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion, economic or other status to ensure equal opportunity for all, by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action.

SDG 11 Make cities and human settlements inclusive, safe, resilient and sustainable.

The University is committed to provide universal access to safe, inclusive and accessible green public spaces for all, in particular for women and children, older persons and persons with disabilities while improving sustainable mobility on campus and strengthen its efforts to protect and safeguard the University's cultural and natural heritage.

SDG 12 Ensure sustainable consumption and production patterns.

The University is committed to ensure that its people have the relevant information and awareness for sustainable development and lifestyles in harmony with nature with the aims to promote the use of resources sustainably and efficiently, reduce food waste generations, managing the waste disposal covering hazardous materials while substantially reducing waste generation in all forms through prevention, reduction, reuse, and recycle.

SDG 13 Take urgent action to combat climate change and its impacts.

The University is committed to improve its effort on education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning with the aim to achieve Campus Carbon Neutral Status with the integration of climate change measures into its strategies and planning across all levels.

SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

The University will enhance the conservation and sustainable use of oceans and their resources while significantly preventing and reducing marine pollution of all kinds, in particular from land-based activities, including marine debris, nutrient pollution and minimise physical, chemical and biological alterations of aquatic ecosystems by increasing scientific knowledge, developing research capacity and transferring marine technology via academic and research platforms.

SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation, and halt biodiversity loss.

The University is committed to mobilize its conservation, restoration and sustainable use of terrestrial ecosystems and enhance its campus biodiversity and landscape for the benefit of its people for sustainable development.

SDG 16 Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.

The University is committed to eliminate all forms of abuse, discrimination, corruption, and bribery at all levels by providing a responsive, inclusive, participatory and representative decision-making at all levels and public access to information and fundamental freedoms toward peaceful, accountable and inclusive societies for sustainable development.

SDG 17 Strengthen the means of implementation and revitalize the global partnership for sustainable development.

The University will promote and enhance both the local and global partnerships for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, monitoring and reporting, to support the achievement of the sustainable development goals in all its activities.

Policy aims:

This sustainability policy governs and oversees the management and development of the University as a higher educational institution (HEI) to ensure the best practices are not only implemented through its core business in delivering a quality academic performance and impactful research, but also covers the operation and services which consider the natural environment and resources are utilized sustainably and responsibly without neglecting the rights of its community towards societal well-being and economic sustainability. The policy is formulated based on five pillars namely: education, research, environment, economy, and social.

Five (5) core pillars in this policy will focus on:

Pillar 1: Education

Ensuring academic performances of students and marketability of graduated students meets the standards and requirements set by the Ministry of Higher Education (MoHE) and relevant parties. This pillar upholds the values of equity, equality and integrity embedded at the centre of its higher education services to be carried out by all academic communities and respective centres. This pillar aspires in providing the students with equal access to quality and sustainable education throughout their enrolment with the University to promote lifelong learning.

Pillar 2: Research

Championing in delivering impactful research in benefitting societies and the World, to contribute greatly in all the aspirations of 17 Sustainable Development Goals (SDGs) which cover environment, social, and economic dimensions. This pillar upholds the element of equal access and rights, the spirit of oneness to work together across different fields and disciplines, to all its respective research communities, according to their expertise and vast experience. Both sciences and social sciences are equally important disciplines for the University to realize its vision and mission through the academic and research spectrums.

Pillar 3: Environment

Embedding the culture of green and sustainable practices within campus community fabric via teaching and learning, research projects implementation, education and awareness campaigns, trainings, operations and services offered by the University, and development of sustainable infrastructures and facilities. This pillar upholds the importance of minimizing harmful environmental risks, burdens or losses to the University by adopting the necessary solutions and considering various alternatives and advancements (technology and applications) while leaving no one behind to gain the benefits of a sustainable, safe and healthy campus environment; which include equal rights and benefits for the underprivileged groups.

Pillar 4: Economy

Upscaling sustainable research outputs, best practices, innovations, commercialization, crowd-funding mechanisms, and start-ups of the University could be introduced, promoted and marketed to relevant stakeholders as part of the economic stimulus for sustainable income generation for the University; both direct and indirect. This pillar upholds the elements of responsible consumption and production, green procurement, waste-to-wealth, solution-oriented, partnerships, entrepreneurship and circular economy to assist the University to explore and create a sustainable economic ecosystem: immediate, medium, and long term.

Pillar 5: Social

Promoting a more holistic and inclusive engagement among campus community with both internal-and-external communities and collaborators (which include ministries, government agencies, private sectors, non-governmental organizations, or civil society organizations) to support the aspiration of the University to produce a sustainable community that upholds the core values of the University: Passion, Oneness, Integrity, Sincerity, and Empathy (POISE). This pillar can be realized via various sustainability engagement platforms which include i) Corporate Social Responsibility (CSR) programme, ii) Environmental, Social and Corporate Governance (ESG) programme, iii) Knowledge transfer programme, iv) Networks, and v) Official representative of the University in established committees/council/society, at all level: local, national, and international.

We hope this 'Universiti Malaya Sustainability Policy' can be used as a basic guide for each of the relevant parties in Universiti Malaya as a model of sustainable framework and action plans that can be applied according to their capacity and resources.

Signed by,

Professor Dato' Ir. Dr. Mohd. Hamdi Abd. Shukor
Vice-Chancellor/President
Universiti Malaya, Kuala Lumpur, MALAYSIA

Date(s)   Endorsed by the Universiti Malaya Board of Directors (LPU)
9 December 2021

Presented to the University's Management Committee Meeting
27 September 2021

First review by Sustainability@UM Members
1 September 2023

Henceforth, this reviewed document is named and shall be cited as:
UM Sustainability Policy 2021-2030 (Second Version)

Review   This policy will be reviewed every 2 years, or as required, in order to ensure that the terms are current, fair and representative of relevant conditions.

Pillar 1: Education

Ensuring academic performances of students and marketability of graduated students meets the standards and requirements set by the Ministry of Higher Education (MoHE) and relevant parties. This pillar upholds the values of equity, equality and integrity embedded at the centre of its higher education services to be carried out by all academic communities and respective centres. This pillar aspires in providing the students with equal access to quality and sustainable education throughout their enrolment with the University to promote lifelong learning.

1   **Education Management:
Education for Sustainable Development**

Main contribution:

4 QUALITY EDUCATION	13 CLIMATE ACTION

Pillar 1: Education	Pillar 2: Research	Pillar 3: Environment	Pillar 4: Economy	Pillar 5: Social

Pillar 1: Education

1 ## Education Management –
Education for Sustainable Development

Based on Core Area 7 of UM Eco-Campus Blueprint: Education Management

Aim: To promote both formal or informal education as the most important medium in ensuring the continuity of any long-term efforts for campus sustainability while providing the students with equal access to quality and sustainable education throughout their enrolment with the University to promote lifelong learning.

1) To integrate education for sustainable development (ESD) into courses in all relevant disciplines.

Key implementation mechanism: To embed elements of ESD including, among others, sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity in all relevant disciplines.

2) To provide facilities and resources for faculties to integrate education for sustainable development (ESD) into their existing courses, by developing and implementing training programs, seminars, and also funding or grants (if applicable).

Key implementation mechanism: To facilitate the academic responsibility centers and community to promote ESD by providing them with the necessary support system and environment: infrastructure, capacity buildings and trainings, and funding if applicable.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

MALAYSIA EDUCATION BLUEPRINT 2015-2025 (HIGHER EDUCATION)

NATIONAL EDUCATION POLICY 2017

UNIVERSITY TRANSFORMATION PROGRAMME-SILVER BOOK 2016

UM ECO-CAMPUS BLUEPRINT CORE AREA 7 2016

Pillar 2: Research

Championing in delivering impactful research in benefitting societies and the World, to contribute greatly in all the aspirations of 17 Sustainable Development Goals (SDGs) which cover environment, social, and economic dimensions. This pillar upholds the element of equal access and rights, the spirit of oneness to work together across different fields and disciplines, to all its respective research communities, according to their expertise and vast experience. Both sciences and social sciences are equally important disciplines for the University to realize its vision and mission through the academic and research spectrums.

1   **Research and innovation towards Sustainable Development Goals (SDGs)**

Main contribution:

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

17 PARTNERSHIPS FOR THE GOALS

Pillar 1: Education

Pillar 2: Research

Pillar 3: Environment

Pillar 4: Economy

Pillar 5: Social

Pillar 2: Research

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

17 PARTNERSHIPS FOR THE GOALS

1 Research and innovation towards Sustainable Development Goals (SDGs)

Aim: To prepare and promote impactful research for the benefit of the societies and the World based on the aspirations of 17 Sustainable Development Goals.

1) To enhance both science and social science research activities and contribution to be aligned with the 17 Sustainable Development Goals (SDGs).

Key implementation mechanism: To support and upgrade technological capabilities and partnerships both in-house and external while increasing the number of research and development personnel and experts contributing to the 17 Sustainable Development Goals (SDGs).

2) To promote equal access to information and communications for both science and social science domain

Key implementation mechanism: To increase and upgrade technology and facilities that allow access to information and communications for both domains in order to promote equal access and rights for respective academic and research community at all level.

3) To promote a conducive policy environment, capacity building and highlight the important role of strategic coordination by Research Management Centre (RMC) to support the aspirations of Sustainable Development Goals (SDGs):

Key implementation mechanism: To plan, coordinate, support and facilitate domestic technology development, research, and innovations to be aligned with the 17 Sustainable Development Goals (SDGs) in benefitting environmental sustainability, stimulate economic growth and safeguarding a peace and well-being of the people.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL POLICY ON SCIENCE, TECHNOLOGY AND INNOVATION ON INDUSTRY 4.0 2013-2020

NATIONAL POLICIES ON INDUSTRY 4.0 2019

GREEN TECHNOLOGY MASTER PLAN MALAYSIA 2017-2030

MALAYSIA MADANI (2022)

12TH MALAYSIA PLAN 2021-2025

Pillar 3: Environment

Embedding the culture of green and sustainable practices within campus community fabric via teaching and learning, research projects implementation, education and awareness campaigns, trainings, operations and services offered by the University, and development of sustainable infrastructures and facilities. This pillar upholds the importance of minimizing harmful environmental risks, burdens or losses to the University by adopting the necessary solutions and considering various alternatives and advancements (technology and applications) while leaving no one behind to gain the benefits of a sustainable, safe and healthy campus environment; which include equal rights and benefits for the underprivileged groups.

1. **Landscape and biodiversity management**
2. **Waste management**
3. **Water management**
4. **Energy management**
5. **Transportation management**
6. **Green procurement**
7. **Net Zero Campus**

Main contribution:

| 6 CLEAN WATER AND SANITATION | 7 AFFORDABLE AND CLEAN ENERGY | 11 SUSTAINABLE CITIES AND COMMUNITIES | 12 RESPONSIBLE CONSUMPTION AND PRODUCTION | 13 CLIMATE ACTION | 14 LIFE BELOW WATER | 15 LIFE ON LAND |

Pillar 1: Education | Pillar 2: Research | **Pillar 3: Environment** | Pillar 4: Economy | Pillar 5: Social

Pillar 3: Environment

1 ## Landscape and biodiversity management

Based on Core Area 1 of UM Eco-Campus Blueprint: Landscape and Biodiversity Management

Aim: To guide the landscape management in UM is aligned with the preservation and conservation efforts of biodiversity in the campus.

1) To provide platform for awareness and educational activities on the importance of biodiversity and landscaping management for campus community.

Key implementation mechanism: Conduct awareness and educational activities on biodiversity and sustainable landscape management to the entire campus community and provide supports in any relevant activities.

2) To conserve, restore and sustainable use of terrestrial ecosystems and landscapes associated with the university.

Key implementation mechanisms: Advice on the design of campus landscape considering the terms of cost, type of suitable plants for the purpose of campus conservation and reforestation as well as long term environmental values and maintenance.

3) To conduct local studies and relevant research on landscape and biodiversity management.

Key implementation mechanism: Monitor protected species (based on IUCN Red Listed species and national conservation list), alien species, and review the impact of landscape management on existing biodiversity around campus followed by coordinating a strategy on best implementation of landscape management.

4) To ensure all development, progress and activities in this Core Area 1 be documented, updated and reported periodically to one unit of 'clearing house'.

Key implementation mechanism: Enforce all faculties, PTjs and residential colleges to properly documented and regularly updating all progress activities relevant to Core Area 1 to the Department of Development and Estate Maintenance (JPPHB UM) in the form of biannual progress report.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL LANDSCAPE POLICY 2019

NATIONAL POLICY ON THE ENVIRONMENT 2021

NATIONAL POLICY ON BIOLOGICAL DIVERSITY 2016-2025

UM LIVING LAB GUIDELINES: VOL I STEP BY STEP GUIDANCE 2019

UM ECO-CAMPUS BLUEPRINT CORE AREA 1 2016

Pillar 3: Environment

(2) Waste management

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

11 SUSTAINABLE CITIES AND COMMUNITIES

Based on Core Area 2 of UM Eco-Campus Blueprint: Waste Management

Aim: To facilitate the university in reducing cost through sustainable solid waste management practices within campus.

1) To measure and monitor the amount of waste generated and recycled in the campus.

Key implementation mechanism: to measure the amount of waste sent to landfill and recycled

2) To establish a program to reduce, reuse, recycle, and compost a high percentage of campus waste.

Key implementation mechanism: Encourage the practice of 3R (reuse, reduce, recycle) among campus community in all relevant areas or activities and promoting the reuse of materials especially in administration and management as an initiative to raise awareness and involvement of campus community on waste reduction activities.

3) To increase the percentage reduced, reused, recycled, and composted waste annually.

Key implementation mechanism: Provide more infrastructure (i.e proper recycling bins and Intelligent Recycling Centre) within campus that can help to foster recycling practices and culture on campus.

4) Expand the scope of waste reduction programs specially single-use plastic and disposable items at all areas and facilities of the campus.

Key implementation mechanism: Promote the concept of 'paperless' and responsible consumption within the entire supply chain (e.g. services and suppliers) while enhancing level of awareness and involvement of campus community on waste reduction activities by following the established action plan.

5) Conduct proper disposal method for hazardous waste.

Key implementation mechanism: Make sure all hazardous materials waste whether solid or liquid materials to be properly disposed following the established procedure in UM Safety Handbook.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL SOLID WASTE MANAGEMENT POLICY 2016
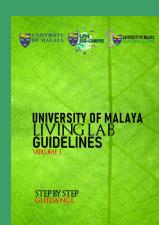
GREEN TECHNOLOGY MASTER PLAN MALAYSIA 2017-2030

NATIONAL POLICY ON CLIMATE CHANGE 2009
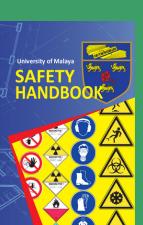
MALAYSIA'S ROADMAP TOWARDS ZERO SINGLE USE PLASTICS 2018-2030

UM LIVING LAB GUIDELINES: VOL I STEP BY STEP GUIDANCE 2019

UM ECO-CAMPUS BLUEPRINT CORE AREA 2 2016

UM SAFETY HANDBOOK

THE GLOBAL GOALS

Pillar 3: Environment

3 Water management

6 CLEAN WATER AND SANITATION

14 LIFE BELOW WATER

Based on Core Area 3 of UM Eco-Campus Blueprint:
Water Management

Aim: To minimize the cost of university's expenditures on monthly water bill payments and conserve UM Varsity lakes as university's iconic value and history.

1) Establish a program to reduce, reuse, systemized water management system as well as to recycle a high percentage of campus water.

Key implementation mechanism: establish systematic water management system including reduce, reuse and recycle of water and conduct more programs related to water conservation is planned to be employed eg: actual approach program for reduce, reuse and recycle of waste stormwater/rainwater.

2) To increase the percentage of reduced, reused, recycled water annually.

Key implementation mechanism: Establish the implementation of sustainable water management and conservation via systematic water management system which integrates the reducing, reusing and recycling of stormwater/rainwater (i.e rainwater harvesting system) in several faculties and or Responsibility Centers (RCs).

3) To expand the scope of water conservation programs at all areas and facilities of the campus.

Key implementation mechanism: Incorporate the knowledge sharing by professionals in educating the campus community through programs and activities related to water and environmental awareness and conservation.

4) To protect and conserve water bodies on campus

Key implementation mechanism: to uphold water quality (which include but not limited to introduce water discharge guideline) in order to protect ecosystems, wildlife, and human health and welfare.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

| NATIONAL WATER RESOURCES POLICY 2012 | NATIONAL POLICY ON THE ENVIRONMENT 2013 | GREEN TECHNOLOGY MASTER PLAN MALAYSIA 2017-2030 | UM LIVING LAB GUIDELINES: VOL I STEP BY STEP GUIDANCE 2019 | UM ECO-CAMPUS BLUEPRINT CORE AREA 3 2016 |

Pillar 3: Environment

4 Energy management

7 AFFORDABLE AND CLEAN ENERGY

13 CLIMATE ACTION

Based on Core Area 4 of UM Eco-Campus Blueprint: Energy Management

Aim: To minimize the cost of university's expenditures on monthly electricity bill payments in preparing UM towards low carbon and eventually carbon neutral campus via energy saving, energy conservation and exploring renewable and clean energy alternatives.

1) To implement Campus Energy Saving program.

Key implementation mechanism: implement energy conservation policy (carbon footprint reduction) by also referring to the National's Energy Efficiency Standard in Buildings, energy audit, application of daylight and natural ventilation, energy conservation through research and innovation, purchasing efficient electrical appliances, while increasing energy efficiency by using latest devices and components.

2) To promote campus community awareness about the importance of efficient electricity usage and its impact on the environment, social and economy.

Key implementation mechanism: Conduct series of awareness program on energy conservation and energy saving culture to all campus community supported by making internal public announcements on the electricity consumption of Responsibility Centers (RCs) and Residential Colleges at least three times a year as an initiative to create more awareness.

3) To explore practical implementation of low carbon solutions on renewable and clean energy in preparing the campus towards carbon-neutral status.

Key implementation mechanism: Establish strategic discussion, programs, partnership and collaboration by linking both internal and external stakeholders to explore practical solutions on renewable and clean energy initiatives on campus.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL ENERGY EFFICIENCY ACTION PLAN 2015

NATIONAL RENEWABLE ENERGY POLICY 2011-2025

NATIONAL POLICY ON CLIMATE CHANGE 2009

GREEN TECHNOLOGY MASTER PLAN MALAYSIA 2017-2030

UM LIVING LAB GUIDELINES: VOL I STEP BY STEP GUIDANCE 2019

UM ECO-CAMPUS BLUEPRINT CORE AREA 4 2016

Pillar 3: Environment

5 Transportation management

Based on Core Area 5 of UM Eco-Campus Blueprint: Transportation Management

Aim: To reduce the dependency of motorized vehicle, especially cars and at the same time, promotes the usage of low/zero emission alternatives among the university communities. Each alternative must be assessed with the utilization of four criteria; reduction of environmental impact, cost-effectiveness, feasibility, and potential student and faculty support.

1) To implement Transportation Demand Management (TDM) strategies and sustainable mobility policies.

Key implementation mechanism: implement best practices and action plans on TDM while introducing relevant policies and regulation to reduce unregistered inbound motorized traffic, consider future campus development to incorporate, promote and support non-motorized mode, walkability, pedestrian comfort, and safety. Another initiative is to revise the existing policy on private vehicle, parking space, and car sticker registration.
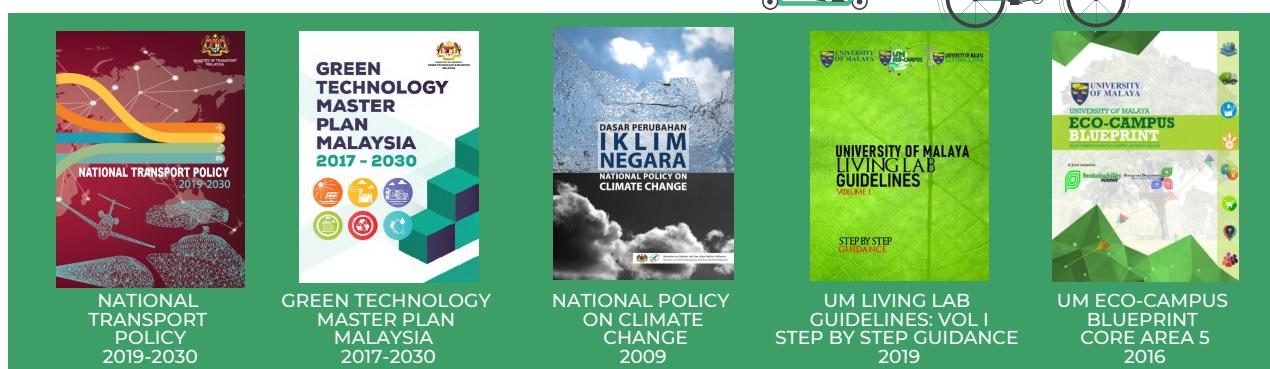
2) To promote campus community awareness about the importance of sustainable transportation, mobility and walkability to promote a cleaner campus environment and well-being of the community.

Key implementation mechanism: Revamp/expand/enhance the campus shuttle services while promoting alternative such as public transport accessibility on campus for both students and staff. Another initiative is to link facilities on campus with covered walkway/natural shaded in promoting walkability and cycling while also exploring multimodal connectivity, such as "Park & Ride / Walk".

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL TRANSPORT POLICY 2019-2030

GREEN TECHNOLOGY MASTER PLAN MALAYSIA 2017-2030

NATIONAL POLICY ON CLIMATE CHANGE 2009

UM LIVING LAB GUIDELINES: VOL I STEP BY STEP GUIDANCE 2019

UM ECO-CAMPUS BLUEPRINT CORE AREA 5 2016

Pillar 3: Environment

6 Green procurement

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

17 PARTNERSHIPS FOR THE GOALS

Based on Core Area 6 of UM Eco-Campus Blueprint: Green Procurement

Aim: To promote responsible and sustainable procurement on campus as part of a long-term sustainability strategy of acquisition procedures that needs to be harmonized and implemented by phases.

1) Ensuring the provision of specifications that are environmentally sensitive in any form of procurement of supplies, services, and works.

Key implementation mechanism: Providing precise specifications to any form of procurement.

2) Encourage the purchase of supplies, services and works with ethical standard and guidelines, high recycled content, produced in an environmentally sustainable manner, which demonstrates maximum durability or biodegradability, reparability, energy-efficiency, non-toxicity, and recyclability.

Key implementation mechanism: Proceed with purchasing of supplies, services, and works that take into account environmental standards and best practices (e.g. organic, sustainably farmed food and harvested aquatic products)

3) Require all Responsibility Centers (RCs) to comply with University's procurement standards as a whole in implementing the programs of the university.

Key implementation mechanism: Conduct educational and awareness activities that support the implementation of environmental conservation while safeguarding economic growth and well-being of the campus community.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

GOVERNMENT GREEN PROCUREMENT GUIDELINE (GGP) 3.0 2020

MYHIJAU DIRECTORY - GREEN PROCUREMENT 2018

UM GREEN PROCUREMENT HANDBOOK & GUIDELINE 2018

UM ECO-CAMPUS BLUEPRINT CORE AREA 6 2016

Pillar 3: Environment

7 Net Zero Campus

Universiti Malaya is an active member of Sustainable Development Solutions Network (SDSN) Malaysia since 2014 with the establishment of its UM Chapter. With the aspiration to be a net zero campus, all campus sustainability strategies are aligns with the Net Zero on Campus Guideline introduced by SDSN in 2022. The goal is to become a carbon-neutral campus by 2030 and a Just Net-Zero Campus by 2050. Our strategies for achieving a Net-Zero Campus are tailored to our specific needs:

1) ENERGY - Reducing energy use and improving energy efficiency of university and college campuses.

Key implementation mechanism: Prioritizing energy conservation, transitioning to electricity from fossil fuels, creating campus microgrids with renewables, and securing renewable energy through purchase agreements.

2) MOBILITY - To reduce emissions associated with mobility and transport.

Key implementation mechanism: Promoting sustainable commuting through bike-sharing, public transport improvements, pedestrian/cycling infrastructure, incentives, and a transition to a zero-emission vehicle fleet. Business travel prioritizes virtual meetings and public transport.

3) FACILITIES - Reducing the building's energy demand and lowering emissions related to building materials and waste.

Key implementation mechanism: Enhancing sustainability by upgrading equipment, transitioning to electric power, retrofitting existing buildings for energy efficiency, and integrating sustainability into new construction projects.

4) WASTE AND RECYCLING - Minimizing emissions by emphasizing waste reduction, material efficiency, and campus recycling practices.

Key implementation mechanism: Focusing on waste avoidance, material waste reduction, and promoting reuse and recycling through circular economy practices, behavior change programs, and on-campus material recovery initiatives.

5) VALUE CHAIN - To establish sustainable procurement policies across the supply chain, encouraging net-zero practices and supplier commitment to sustainability despite challenges.

Key Implementation Mechanism: Establishing sustainable procurement policies addressing emissions across the supply chain, promoting eco-friendly products, local sourcing, and supplier commitment to sustainability.

6) BEYOND CAMPUS OPERATIONS - Implementing net zero initiatives within campus operations to drive down emissions.

Key Implementation Mechanism: Driving emissions reduction by sharing expertise, involving students in decarbonization efforts, supporting net-zero education and research, and promoting innovation both on and off-campus.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NET ZERO ON CAMPUS
GUIDELINE BY SDSN
(2022)
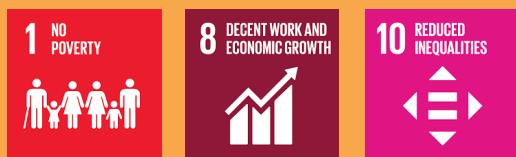
Pillar 4: Economy

Championing in delivering impactful research in benefitting societies and the World, to contribute greatly in all the aspirations of 17 Sustainable Development Goals (SDGs) which cover environment, social, and economic dimensions. This pillar upholds the element of equal access and rights, the spirit of oneness to work together across different fields and disciplines, to all its respective research communities, according to their expertise and vast experience. Both sciences and social sciences are equally important disciplines for the University to realize its vision and mission through the academic and research spectrums.

1   **Poverty eradication by leaving no one behind**

2   **Sustainable economic growth and working environment**

Main contribution:

| 1 NO POVERTY | 8 DECENT WORK AND ECONOMIC GROWTH | 10 REDUCED INEQUALITIES |

| Pillar 1: Education | Pillar 2: Research | Pillar 3: Environment | **Pillar 4: Economy** | Pillar 5: Social |

Pillar 4: Economy

1 Poverty eradication by leaving no one behind

1 NO POVERTY

10 REDUCED INEQUALITIES

Aim: To address and eradicate poverty in UM both students and staff to be aligned with national policies and agenda. Universiti Malaya remained committed to inform and reach out to respective students, by leveraging on data, as supported by the Corporate Data Centre (CDC) and Academic Administration and Services Department (AASD).
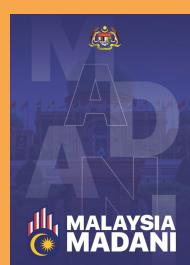
Key implementation mechanism:

1) To ensure the mobilization of resources through enhanced development cooperation, and to implement policies and programs that end poverty in all dimensions for both students and staff.

2) To ensure equal rights to economic resources, financial services (scholarships), appropriate technology and basic services are given to all men and women, both students and staff especially the underprivileged and vulnerable groups through its policies and programs.

3) To create a sound policy framework based of pro-poor and gender-sensitive development strategies, that support accelerated investment in poverty eradications actions.

4) To gradually improve in developing retention and graduation strategies for the B40 or underprivileged students, which in return, minimise institutional barriers while enhancing collaboration across the University.
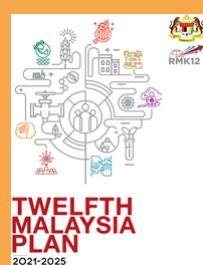
RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

MALAYSIA MADANI
(2022)

TWELFTH MALAYSIA PLAN
2021-2025

12TH MALAYSIA PLAN
2021-2025

Pillar 4: Economy

8 DECENT WORK AND ECONOMIC GROWTH

10 REDUCED INEQUALITIES

(2) Sustainable economic growth and working environment

Aim: To promote sustainable, responsible and decent work and economic growth environment in UM with the efforts of promoting responsible consumption and production, green procurement, waste-to-wealth, solution-oriented, partnerships, entrepreneurship and circular economy to assist the University to explore and create a sustainable economic ecosystem: immediate, medium, and long term.

Key implementation mechanism:

1) To ensure decent work for all men and women, including for young people and disabilities by achieving full and productive, and equal pay for equal work.

2) To promote policies that is development-oriented in supporting productive activities, creation of decent jobs, entrepreneurships, creativity and innovation, and the formalization and growth of sustainable enterprises and start-ups, both staff and students.

3) To promote sustainable consumption and production programs to decouple economic growth and environmental degradation.
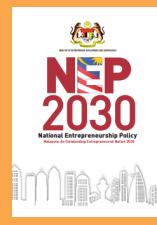
RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

MALAYSIA MADANI (2022)

12TH MALAYSIA PLAN 2021-2025

NATIONAL ENTREPRENEURSHIP POLICY 2030

NATIONAL WORKFORCE HUMAN CAPITAL DEVELOPMENT BLUEPRINT 2018- 2025

MINIMUM WAGE ORDER 2022

THE GLOBAL GOALS

UNIVERSITI MALAYA SUSTAINABILITY POLICY
DASAR KELESTARIAN UNIVERSITI MALAYA

Pillar 5: Social

Promoting a more holistic and inclusive engagement among campus community with both internal-and-external communities and collaborators (which include ministries, government agencies, private sectors, non-governmental organizations, or civil society organizations) to support the aspiration of the University to produce a sustainable community that upholds the core values of the University: Passion, Oneness, Integrity, Sincerity, and Empathy (POISE). This pillar can be realized via various sustainability engagement platforms which include i) Corporate Social Responsibility (CSR) programme, ii) Environmental, Social and Corporate Governance (ESG) programme, iii) Knowledge transfer programme, iv) Networks, and v) Official representative of the University in established committees/council/society, at all level: local, national, and international.

1. **End hunger, promote food security and sustainable agriculture**

2. **Promote healthy lifestyle and well-being**

3. **Promote gender equality**

4. **Reduce and eliminate economic and social inequalities**

5. **Promote peaceful, inclusive and justice society and institution through partnership**

Main contribution:

| 2 ZERO HUNGER | 3 GOOD HEALTH AND WELL-BEING | 5 GENDER EQUALITY | 10 REDUCED INEQUALITIES | 11 SUSTAINABLE CITIES AND COMMUNITIES | 16 PEACE, JUSTICE AND STRONG INSTITUTIONS | 17 PARTNERSHIPS FOR THE GOALS |

Pillar 1: Education

Pillar 2: Research

Pillar 3: Environment

Pillar 4: Economy

Pillar 5: Social

Pillar 5: Social

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING
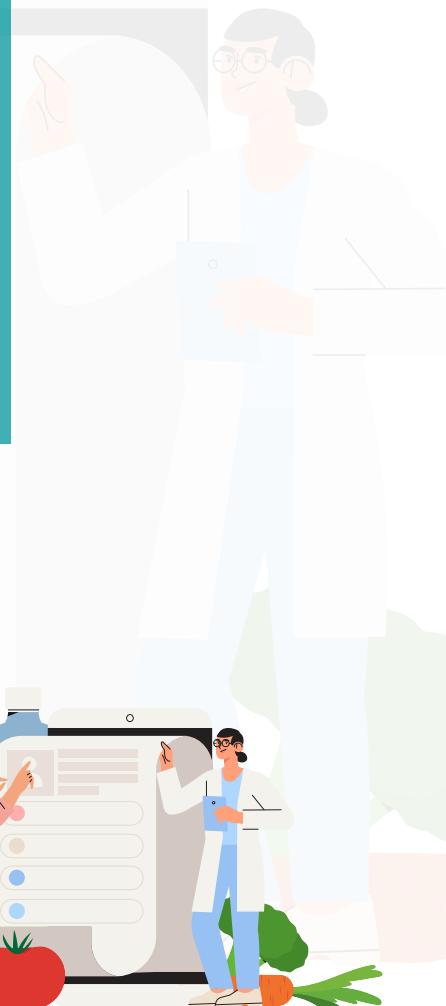
1 End hunger, promote food security and sustainable agriculture

Aim: To guide the hunger eradication initiatives in UM aligned with the efforts in ensuring food security, improving nutrition and promoting sustainable agriculture.
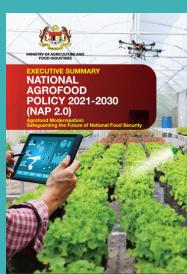
Key implementation mechanism:

1) To support the sustainable food production process at each level, including, production, handling and storage, processing, distribution and consumption, where applicable.

2) To provide interventions in ensuring access to safe, nutritious and sufficient food for campus community.

3) To provide sustainable, healthy and affordable food choices to campus community.

4) To coordinate and conduct programs and educational activities on food and agricultural sustainability.

5) To provide access to food security and sustainable agriculture knowledge, skills or technology to local farmers and food producers via research and capacity building programs.
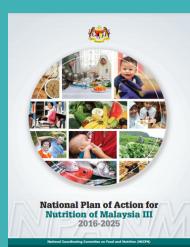
RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL AGROFOOD
POLICY 2021-2030
(NAP 2.0)

NATIONAL NUTRITION
POLICY OF MALAYSIA 2.0
2021

NATIONAL PLAN OF ACTION
FOR NUTRITION OF
MALAYSIA III
2016-2025

Pillar 5: Social

3 GOOD HEALTH AND WELL-BEING

11 SUSTAINABLE CITIES AND COMMUNITIES
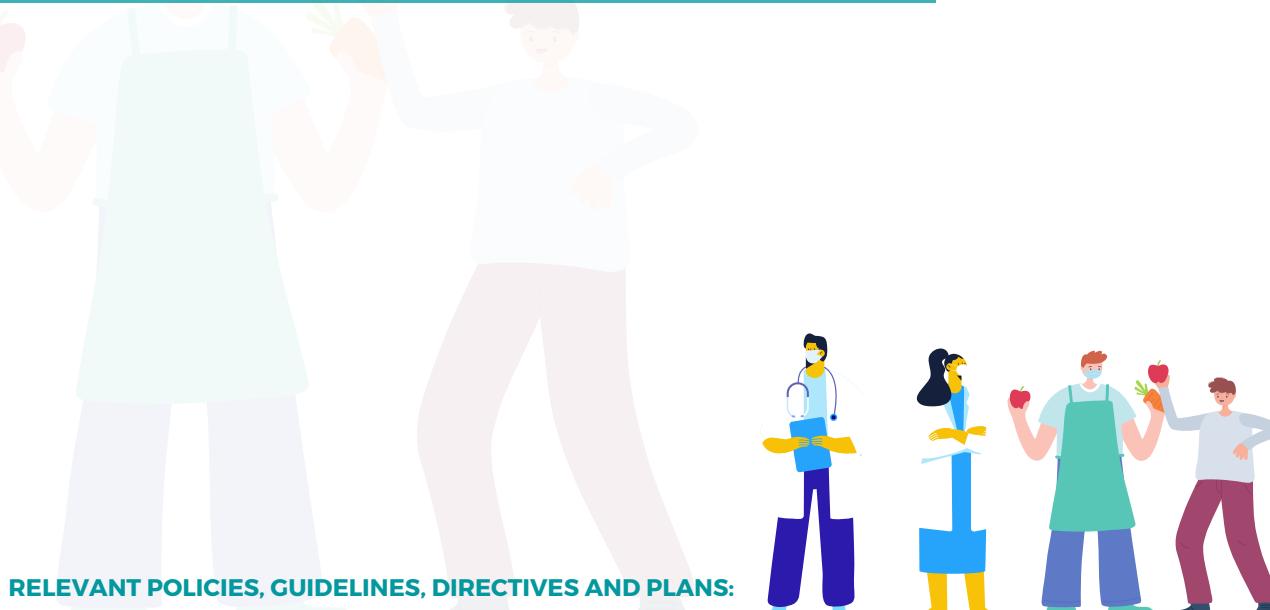
(2) Promote healthy lifestyle and well-being

Aim: To guide the health and wellbeing promotion initiatives and programs in UM aligned with the efforts in eradicating and addressing emerging health issues and providing healthcare supports and treatments which include the 'no smoking / tobacco free campus' initiatives.
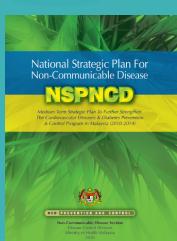
Key implementation mechanism:

1) To support and conduct educational activities on health professions.

2) To collaborate with local, national or global health institutions.

3) To deliver outreach programs and projects in the local community in promoting health and well-being.

4) To provide access to sports facilities services for campus community: both students and staff.

5) To ensure access to information, education, support and treatment for healthcare including mental health for campus community: both students and staff.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

NATIONAL STRATEGIC PLAN FOR NON-COMMUNICABLE DISEASE 2016-2025

STRATEGIC FRAMEWORK OF THE MEDICAL PROGRAMME 2021-2025

NATIONAL MENTAL HEALTH POLICY 2012

NATIONAL STRATEGIC PLAN FOR TOBACCO CONTROL AND MQUIT PROGRAM 2021-2030

TOBACCO CONTROL AWARENESS AND ADVOCACY HANDBOOK 2014

THE GLOBAL GOALS

UNIVERSITI MALAYA SUSTAINABILITY POLICY
DASAR KELESTARIAN UNIVERSITI MALAYA

Pillar 5: Social
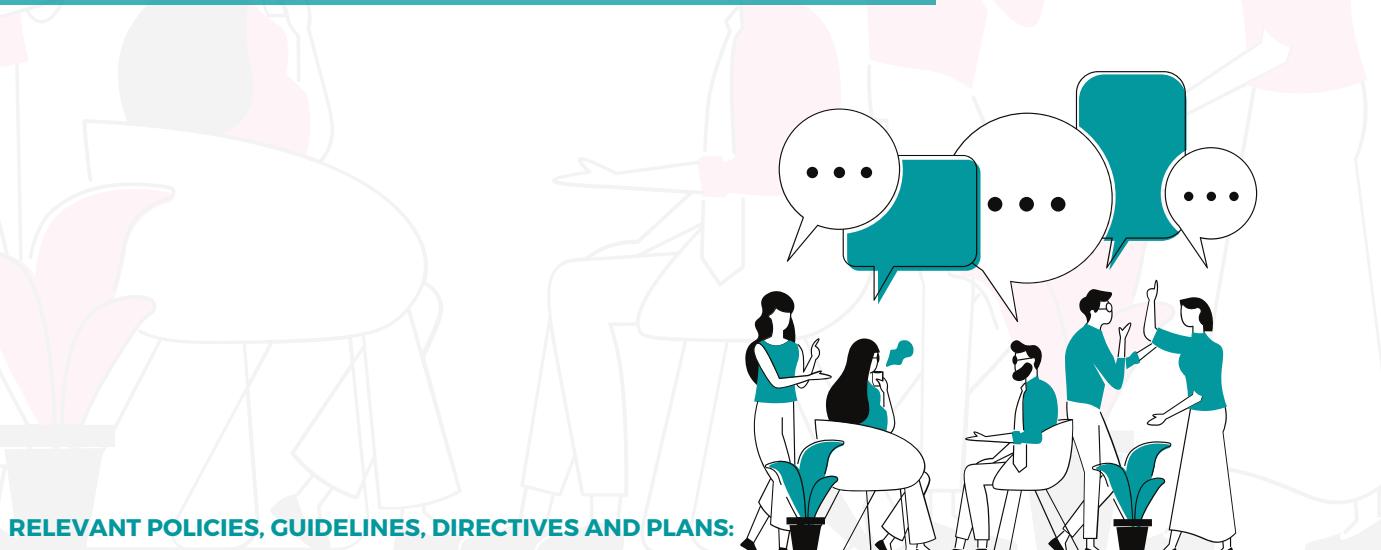
(3) Promote gender equality

Aim: To guide and promote gender equality initiatives in UM aligned with the efforts in eliminating all forms of discrimination and violence against women in the campus. Universiti Malaya remained committed to improve organizational awareness and implement initiatives to address any identified gaps in gender equality.

Key implementation mechanism:

1) To support disadvantaged female students and staff in the University and eliminate all forms of discrimination against women.

2) To support female students in academic progression including applications, acceptance, entry, and study completion at the University.

3) To encourage women's participation and ensure equal opportunities for leadership at all levels of decision-making.

4) To ensure access to the childcare facilities for students and staffs in the University.

5) To champion culture, community, and inclusive practices regardless of gender.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

| NATIONAL POLICY ON WOMEN AND WOMEN'S DEVELOPMENT ACTION PLAN 2009 | GENDER BUDGETING IN MALAYSIA 2005 | CODE OF PRACTICE ON THE PREVENTION AND ERADICATION OF SEXUAL HARASSMENT IN THE WORKPLACE 1999 | BEIJING DECLARATION - MALAYSIA PROGRESS REPORT 2014-2019 (FOR WOMEN EMPOWERMENT) | ASEAN REGIONAL PLAN OF ACTION ON THE ELIMINATION OF VIOLENCE AGAINST WOMEN 2016 |

Pillar 5: Social

4 **Reduce and eliminate economic and social inequalities**

10 REDUCED INEQUALITIES

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

Aim: To guide the inequalities elimination initiatives in UM aligned with the efforts in tackling inequalities of underrepresented groups in the campus from economic and social perspectives. Universiti Malaya does not discriminate staff and students, in paying them, by at least the minimum living wage equally to all, regardless of their gender, races and religions and UM adhere to the present Government's respective policy and directives.
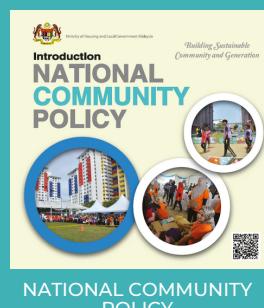
Key implementation mechanism:

1) To support participation and ensure equal opportunities to underrepresented groups in the University.

2) To provide mentoring, counselling or peer support programs for underrepresented groups in the University.

3) To eliminate all forms of discrimination which include admission and enrolment against underrepresented groups by promoting appropriate legislation, policies and practices in the University.

4) To provide accessible facilities and accommodation for students with disabilities.

RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:

MALAYSIA MADANI
(2022)

NATIONAL COMMUNITY POLICY
2018

Pillar 5: Social

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

5 ## Promote peaceful, inclusive and justice society and institution through partnership

Aim: To facilitate UM community (staff and students, senior and junior) to work towards a strong institution aligned with the efforts in promoting peace, justice and inclusiveness in the campus through strategic partnership across all level, which include teaching and learning, research, operations, leadership and networking.

Key implementation mechanism:

1) To provide specific expert advice, outreach, general education, upskilling and capacity to local, regional or national government and stakeholders which include policy- and lawmakers.

2) To eliminate all forms of abuse, discrimination, corruption and bribery at all levels at the University by publishing the University's principles and commitments on organized crime, corruption and bribery.

3) To support academic freedom in choosing the area of research, speaking and teaching publicly about the area of research while ensuring public access to the information including the University's financial data.

4) To provide a neutral platform for different political stakeholders to discuss issues.

5) To strengthen the viable means of implementation and revitalize the partnership for sustainable development at local, regional and global via education, research, operations, and governance.
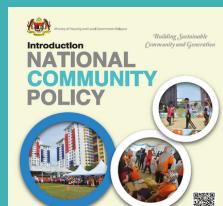
RELEVANT POLICIES, GUIDELINES, DIRECTIVES AND PLANS:
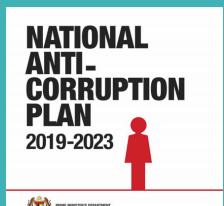
MALAYSIA MADANI (2030)

12TH MALAYSIA PLAN 2021-2025

NATIONAL COMMUNITY POLICY 2018

NATIONAL ANTI-CORRUPTION PLAN 2019-2023

Acknowledgements

We thank you for your continued support in **our collective efforts** to contribute to the **sustainability shift,** SDGs and make the University sustainable for all.

Contact
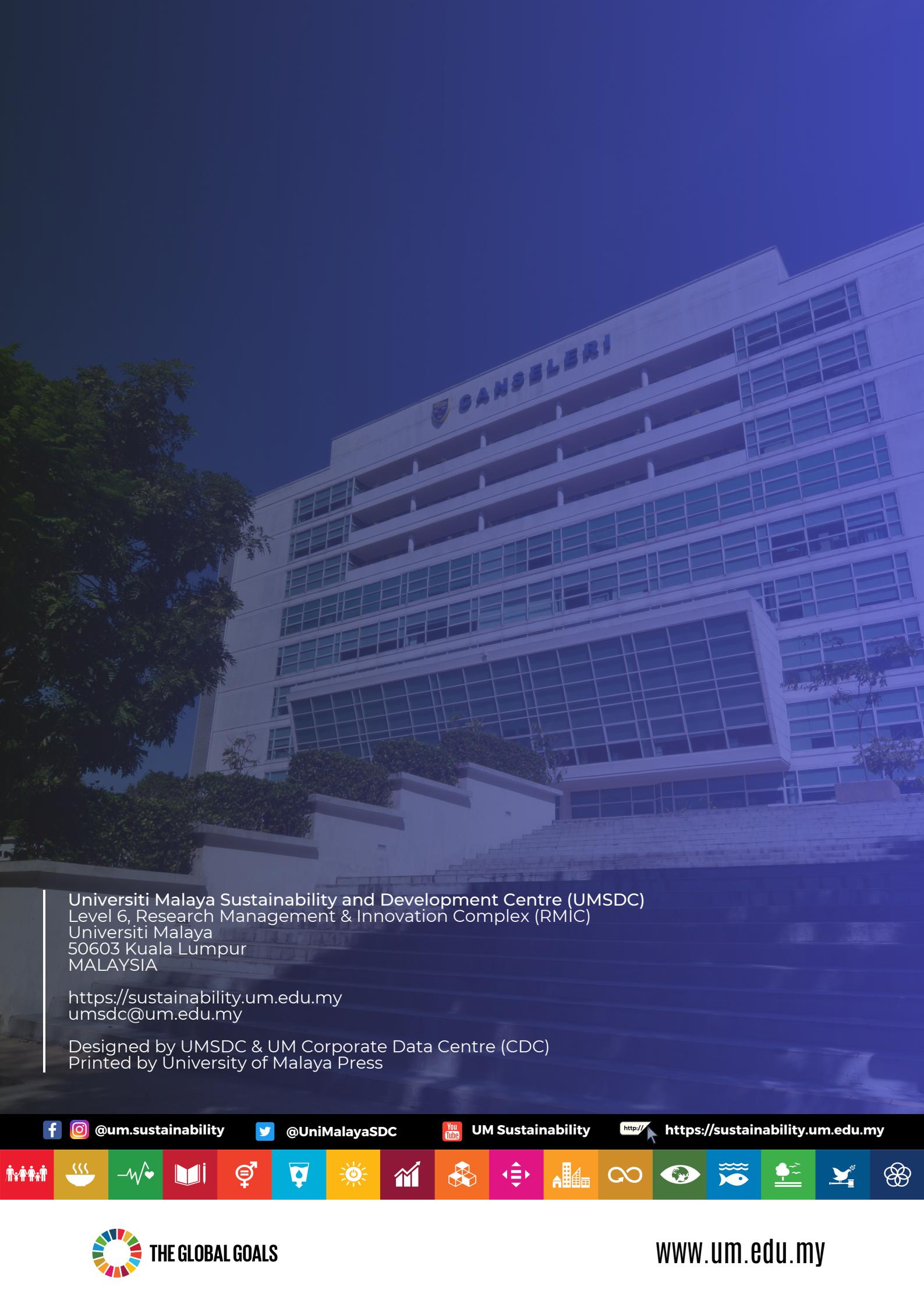
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