

# UKM

## SUSTAINABLE DEVELOPMENT GOALS

# 20 23 REPORT



UNIVERSITI KEBANGSAAN MALAYSIA

**SUSTAINABLE**

DEVELOPMENT GOALS

**2023 REPORT**

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# PREFACE

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Assalamualaikum                      warahmatullahi  
wabarakatuh, Salam Malaysia MADANI  
and Salam Universiti Watan.

I begin by expressing my heartfelt appreciation to the top leadership of Universiti Kebangsaan Malaysia (UKM) for their unwavering commitment to supporting and advancing the sustainability development agenda at our university. Your guidance and vision continue to drive UKM's leadership in sustainable practices, both within Malaysia and on the global stage.

I would also like to extend my sincere thanks to the UKM SDG Leaders and the UKM Sustainability Secretariat, whose dedication, creativity and tireless efforts have been pivotal in realizing the milestones highlighted in this report. Your work is the backbone of our progress in embedding sustainability into all facets of UKM's operations and academic endeavors.

The year 2023 has seen UKM take notable steps forward, not only in strengthening campus sustainability but also in pushing the boundaries of research, innovation and community engagement in support of the global SDGs. As we continue toward 2030, key priorities remain focused on enhancing waste management systems, increasing the adoption of renewable energy solutions and elevating the role of sustainability research within the university.

With this steadfast commitment and shared passion, I am confident that the UKM Sustainability Secretariat, along with the entire university community, will continue to work tirelessly to ensure the successful achievement of all objectives outlined in the UKM 2030 Sustainability Strategic Plan.

Thank you.

**PROFESSOR DATO' DR. ROSLEE RAJIKAN**

Pro Vice-Chancellor (Strategy and Nationalism)  
Universiti Kebangsaan Malaysia

# INTRODUCTION

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Universiti Kebangsaan Malaysia (UKM) proudly presents the 2023 Sustainability Report, detailing our commitment to environmental stewardship, social responsibility and sustainable development. As a Malaysian leader in sustainability, UKM is dedicated to serving as a model for both the university community and beyond, aligning our efforts with the United Nations Sustainable Development Goals (SDGs) and national priorities. This report highlights our accomplishments and challenges in 2023, with a focus on key areas such as carbon reduction, responsible resource management, waste minimization and community engagement.

Guided by the UKM Sustainability Strategic Plan 2030, we have set ambitious goals across carbon reduction, energy efficiency, waste management and inclusivity, aiming for a Net-Zero Campus by 2050. Our initiatives this year include improved energy conservation, enhanced water management through efficient fixtures and lake water storage and active efforts to reduce plastic waste. Community programs emphasize inclusivity, providing resources for underrepresented groups and fostering partnerships to advance social sustainability.

UKM's research and innovation efforts contribute directly to sustainability, with projects addressing renewable energy, waste-to-resource technologies and climate resilience, among others. Through collaborations with government and industry, our researchers are generating practical solutions for global challenges, from air pollution mitigation to IoT-based environmental monitoring.

Looking forward, UKM is committed to deepening its sustainability practices by enhancing renewable energy usage, expanding community outreach, integrating sustainability further into the curriculum and fostering new partnerships. This 2023 Sustainability Report underscores our enduring commitment to a sustainable future and invites our community and stakeholders to join us in advancing meaningful change. Together, we are working to secure UKM's position as a leading institution for sustainability and a model for responsible and resilient academic institutions.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

**SDG 1, or Sustainable Development Goal 1: No Poverty, is one of the seventeen global goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development. This goal aims to end poverty in all its forms everywhere.**

**In a world where billions still live in extreme poverty, SDG 1 recognizes the urgent need to eradicate poverty to ensure a sustainable and equitable future for all. It encompasses various dimensions of poverty, including income poverty, lack of access to basic services such as education and healthcare, inadequate housing, and vulnerability to economic shocks and disasters.**

**Achieving SDG 1 requires targeted efforts to empower marginalized communities, promote inclusive economic growth, ensure social protection systems, enhance access to essential services, and address structural inequalities. By addressing the root causes of poverty and implementing sustainable development policies, countries can work towards building a more just and prosperous world where no one is left behind.**

**UKM is dedicated to ensuring that all its staff and students, irrespective of race, religion, or gender, have access to essential life resources, livelihoods, and social support. This aligns with UKM Sustainability Policy 2030: UKM ensures access to basic life resources, livelihoods, and social support is provided to its citizens regardless of race, religion, or gender.**

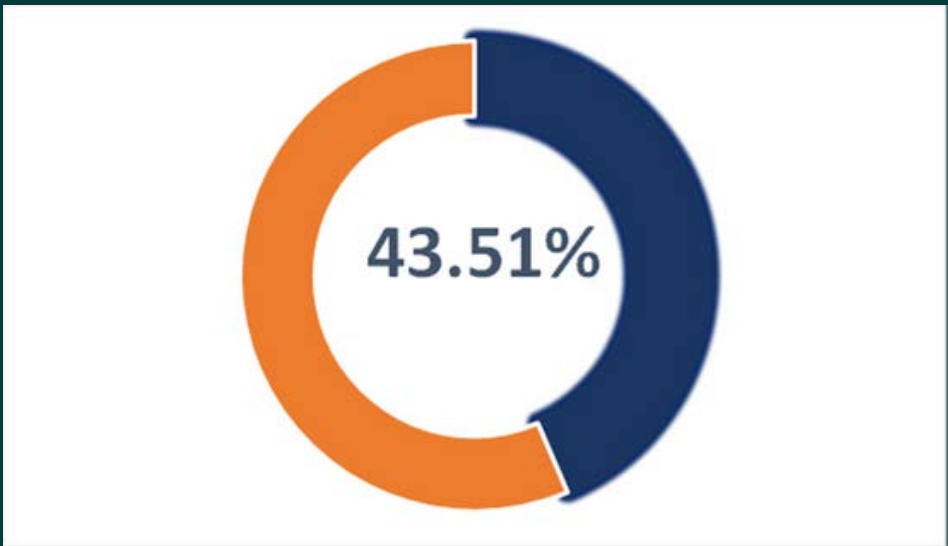




# END POVERTY IN ALL ITS FORMS EVERYWHERE

## B40 STUDENTS@UKM

In Malaysia, households are categorised into three main income classifications: low-income household-Bottom 40% (B40), Middle 40% (M40) and Top 20% (T20). UKM is committed to increasing access to education for students from low-income households, specifically the B40 group. In 2023, UKM welcomed 4,286 new students, of which 1,865 were from B40 households, representing 43.5% of the total intake. For graduation rate, UKM remains steadfast in its commitment to achieving a minimum of at least 90% graduation rate including B40 students across all degree levels, including Bachelor’s, Master’s, and PhD programs.



Percentage of B40 Students Admitted in UKM for 2023 intake (Year 1)

Table: Graduation Data for Total and B40 Students (2023)

Category	Total Number of Graduates	B40 Graduates
Actual Graduates	7255	3869
Expected Graduates	7969	4269
Percentage of Graduates	91.04%	90.63%



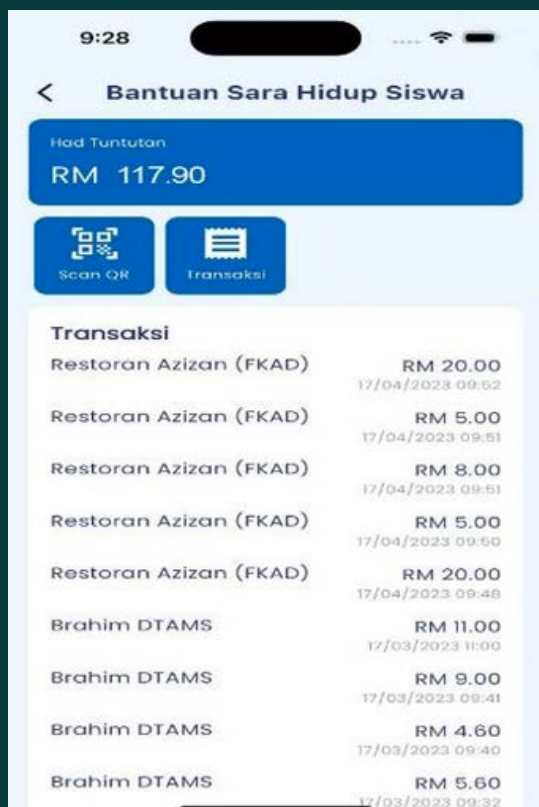
## END POVERTY IN ALL ITS FORMS EVERYWHERE

### UKM SUPPORT NO POVERTY

UKM provides support in key areas such as food, housing, transportation, and legal services for students from low-income families to enable them to complete universities. This assistance is coordinated through the Welfare Unit at the Center for Student Affairs (HEP-UKM). Students can access detailed information about available support and resources on the HEP-UKM website or by visiting the office directly. UKM's commitment to these programs underscores its dedication to helping all students achieve their full potential.

UKM's commitment to SDG 1: No Poverty is clear through its comprehensive support programs, offering essential resources like food, housing, transportation and legal services. These initiatives address immediate needs and contribute to students' long-term success. UKM is dedicated to expanding and improving these efforts to ensure all students can succeed, regardless of their financial situation.

### FOOD SUPPORT INITIATIVES



UKM has launched several food assistance initiatives to help ease the student burden among students. To ensure that students have consistent access to nutritious meals, UKM has established a food incentive program (Dompot Siswa UKM). Under this program, 1,000 students receive RM800 (USD 170) per semester, distributed through a specially designed mobile app, MyUKM. This app allows students to purchase food at designated campus cafeterias. This innovative approach not only guarantees daily access to food but also gives students the flexibility to choose their meals.





## END POVERTY IN ALL ITS FORMS EVERYWHERE

### FOOD BANK

The Food Bank initiative for students has a significant impact, particularly in alleviating food insecurity among students from low-income backgrounds, such as those in the B40 group. It ensures that students have access to nutritious meals, reducing their financial burden and enabling them to focus better on their studies. Additionally, it contributes to their overall well-being by preventing hunger and promoting a balanced diet. The initiative also fosters a sense of community support and can lead to improved academic performance due to reduced stress over basic needs.



Food Bank organised by UKM Campuses



The Faculty of Social Sciences and Humanities Student Association (PMFSSK) organized and stocked food supplies for the Food Locker at FSSK as part of the "Food Locker Programme."



## END POVERTY IN ALL ITS FORMS EVERYWHERE



Food Bank by Faculty of Science & Technology Student's Association (PMFST)

## HOUSING ASSISTANCE

UKM's dedication to student success is evident in our financial assistance programs. In 2023, we were able to support 42 students with full sponsorship for residential colleges through the Waqf and Endowment Room Programme.

Six colleges involved the Waqf and Endowment Room Programme

- Kolej Tun Hussein Onn,
- Kolej Burhanuddin Helmi,
- Kolej Ibrahim Yaakob,
- Kolej Pendeta Zaaba,
- Kolej Keris Mas,
- Kolej Tun Syed Nasir



Waqf and Endowment Room  
Pendeta Za'ba Residential College

UKM is committed to inclusivity, ensuring that all students have equal access to a comfortable and supportive living environment. Our investment of RM200,000 (USD42,467) in upgrading dormitory facilities demonstrates our dedication to meeting the needs of individuals with disabilities (OKU). Three colleges involved in the dormitory OKU facilities Kolej Ungku Omar, Aminuddin Baki and Kolej Dato Onn.





## END POVERTY IN ALL ITS FORMS EVERYWHERE



### STUDENT HOME REPAIR AIDS GOMBAK, SELANGOR

UKM stands by its students, offering the Student Home Repair Assistance program to help those impacted by floods, fires and property damage.



## TRANSPORTATION SUPPORT

UKM prioritizes student well-being by offering a variety of transportation options, making commuting around campus a breeze. UKM values its students and demonstrates its commitment to their well-being through partnerships that offer transportation benefits like the Student Bus Ticket Assistance by MAIWP and FLYSiswa Initiative.



UKM provided 21 free shuttle buses moved within and around the campus for residents' convenience





## END POVERTY IN ALL ITS FORMS EVERYWHERE



Student Bus Ticket Assistance by MAIWP

## FLYSISWA INITIATIVES FOR UKM STUDENTS



## GOVERNMENT AND CORPORATE TRANSPORTATION INITIATIVES



UKM goes green with eScooters and Easy Wheel Bicycles, offering sustainable and convenient transportation options for its residents.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

### LEGAL SERVICES

The Literacy and Legal Aid Clinic (KLBG) at UKM, established by the Faculty of Law, provides legal consultation services to the community, especially students in need. KLBG addresses cases across Civil and Syariah Courts, including criminal matters, with a panel of UKM law lecturers and appointed lawyers. It also refers cases to relevant agencies for additional support and promotes legal awareness through public literacy programs.

Services provided included:

- Mediation
- Counseling
- Assistance for Persons with Disabilities (PWDs)



### UKM SUPPORT STUDENTS FROM LOW INCOME FAMILIES

UKM is deeply committed to advancing Sustainable Development Goal 1 (No Poverty) by providing comprehensive financial support to students from the bottom financial quintile. Recognizing the financial barriers that can impede academic success, UKM has implemented a range of targeted initiatives to ensure that all students, regardless of their economic background, could complete their studies without financial hardship.

### SULONG SCHOLARSHIP

Universiti Kebangsaan Malaysia's Sulong Scholarship is a flagship initiative under Malaysian Family Student Development Program (SULUNG) 2.0, aimed at eliminating poverty. Launched last year, the scholarship program has successfully awarded nearly 800 scholarships to deserving students from underrepresented backgrounds. This demonstrates UKM's active participation in government efforts to address poverty and its commitment to providing financial support to students in need.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

### STRATEGIC FINANCIAL AID PROGRAMS

UKM has also implemented several programs specifically designed to provide financial aid to students from the bottom financial quintile. These include the "Program Jejak Anak Watan," which offers scholarships to students. In 2023, The Jejak Anak Watan Program welcomed 25 prospective UKM students selected in several states of the peninsula covering the Central Zone, North, South and East Coast. During this visit, the Vice-Chancellor also handed over financial aid and a 'Bakul Rahmah' to Nur Fatehah and her family at her home located in Kampung Rinching Hilir Bangi.



Nur Fatehah, the third child of five siblings, was the first child to receive an offer to continue her studies at university in the Bachelor of Arts with Honors (History) program at the Faculty of Social Sciences and Humanities (FSSK). Hailing from Kampung Rinching Hilir Bangi, Selangor, she is a STPM graduate who chose UKM as his first choice because his late father was also a former UKM employee.



Through the Jejak Anak Watan program, UKM showed its concern for the welfare of its students who successfully accepted offers of admission this year by handing over financial assistance of RM1,000 (USD 230.39) in cash and a Rahmah Basket worth RM200 (USD 46.07). The handover of aid from the UKM Zakat Fund and the Student Affairs Center of UKM (HEP-UKM) Welfare Fund is delivered directly through visits to the homes of prospective students.

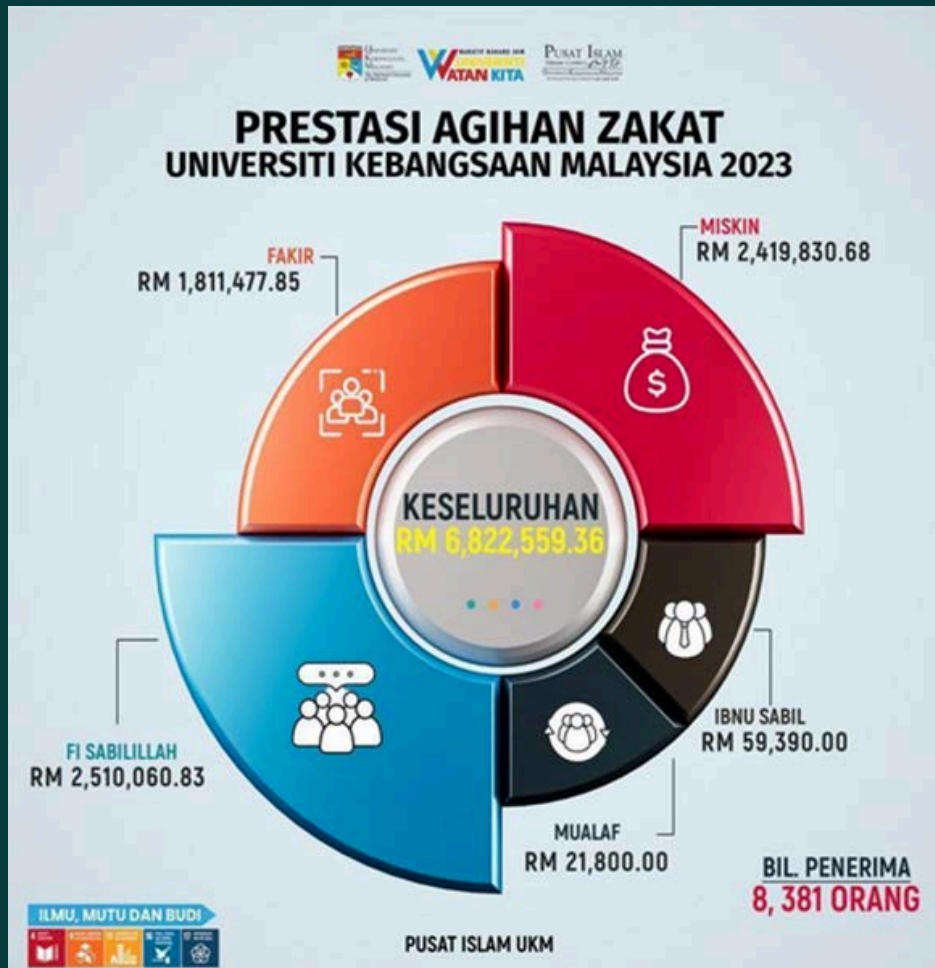
### FINANCIAL AID INITIATIVES

Through these units, UKM has established separate financial reserves specifically earmarked for assisting students in need.





## END POVERTY IN ALL ITS FORMS EVERYWHERE



- **Student Wellbeing Moneybox:**  
With a budget of RM 1.6 million (USD 339,739) this fund has benefitted 432 students.
- **Zakat UKM:**  
Amounting to RM 6.823 million (USD 1,448,775) this initiative has supported 8,381 students.
- **General Educational Aids:**  
Includes support from agencies such as MARA, JPA, and PTPTN.
- **General Course Financial Supports:**  
Provides additional financial assistance for course-related expenses.
- **Special New Student Financial Aids:**  
Targets incoming students in need of financial support.
- **Special Excellence Awards:**  
Recognizes and rewards academic excellence among students.
- **Mobility Study Award:**  
Provides financial assistance for students participating in study-abroad programs.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

### STUDENTS AFFAIR AND ISLAMIC CENTRE UNITS

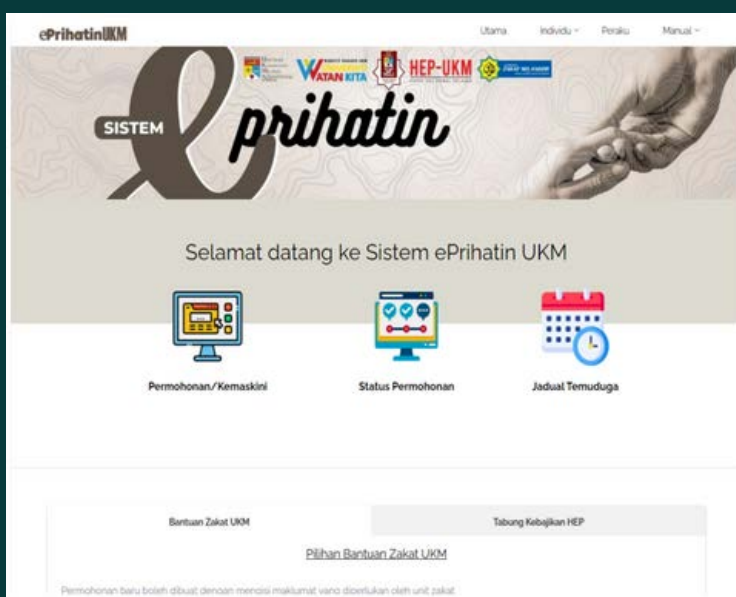
UKM is highly active in ensuring student well-being, particularly through the dedicated efforts of two key units within the university: the Students Affair and Islamic Centre units. These units have established a strategic process to provide financial aid as part of UKM's effort to achieve zero poverty among its students.

### STUDENTS AFFAIR AND ISLAMIC CENTRE UNITS

UKM is highly active in ensuring student well-being, particularly through the dedicated efforts of two key units within the university: the Students Affair and Islamic Centre units. These units have established a strategic process to provide financial aid as part of UKM's effort to achieve zero poverty among its students.

### TECHNOLOGICAL ADVANCEMENTS FOR EFFICIENT SUPPORT

UKM is highly active in ensuring student well-being, particularly through the dedicated efforts of two key units within the university: the Students Affair and Islamic Centre units. These units have established a strategic process to provide financial aid as part of UKM's effort to achieve zero poverty among its students.



This digital platform functions as an e-form for students to apply for financial aid streamlining the application process and making it more efficient.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

Total aids given is RM 1,615,764  
(USD 343,086) from Student  
Affairs Centre of UKM



Official distribution ceremony to qualified beneficiaries



## END POVERTY IN ALL ITS FORMS EVERYWHERE



UKM Research Zamalah Scheme is an initiative offered by UKM to support postgraduate students from low or lower middle-income countries engaged in research.

Benefit of the scheme are included:

- Financial Assistance
- Tuition Fee Coverage
- Opportunities for Publications and Conferences
- Training and Research Support

In 2023, the distribution of Zamalah scheme across various countries, showing that UKM supports students from diverse regions, particularly those from lower-income countries who may face financial challenges, in total of RM2,451,381.40, equivalent to USD 559,807.42.





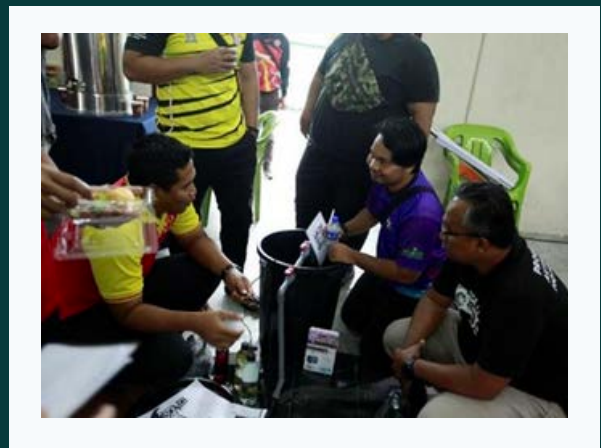
## END POVERTY IN ALL ITS FORMS EVERYWHERE

### COMMUNITY ANTI-POVERTY PROGRAMMES

#### AGRONOMY: EMPOWERING COMMUNITY FOOD SUSTAINABILITY PROGRAM

The Center for Entrepreneurship and EKS Development (UKM-CESMED) organized the Agronomy Program to enhance food sustainability at the Dewan Komuniti Kampung Bukit Changgang, Banting, Selangor in July 2023. This program trained 70 participants advanced planting techniques, including fertigation and hydroponics. With fertigation, they discovered precise fertilizer application, which conserves water and meets daily plant needs.

Hydroponics offered a space-efficient, cost-effective method for growing vegetables at home. At the end of the program, participants received free starter kits for both methods to continue growing at home. The program also provided participants with basic entrepreneurial skills to sell their produce locally, supporting community food security and income generation, aligning with Sustainable Development Goal (SDG 1): Zero Poverty.



#### STITCH-US PROGRAM



UKM Graduate School of Business, in partnership with the Ministry of Rural and Regional Development, the Creative Sewing Arts Centre, and the Rural Community Center, launched "Project Stitch-Us" to empower women in Kampung Gumut Tambahan. The program offered practical training in sewing, cooking, and online marketing, equipping participants with valuable skills and business opportunities to foster self-reliance and economic growth.





## END POVERTY IN ALL ITS FORMS EVERYWHERE

### CREATING INCOME OPPORTUNITIES (C.I.N.T.A)



In February 2023, UKM Graduate School of Business students partnered with the Malaysian Prison Department to launch Project CINTA, securing support from nine companies to aid Kajang Women's Prison. This initiative raised USD 12,390.93 to upgrade facilities and equipment for inmate skill development, aiming to boost production and sales revenue, supporting rehabilitation efforts.

### THE INTEGRATED COMMUNITY GARDEN PROGRAM: VEGETABLES FOR YOUR (SUKA)



In March 2023, UKM Graduate School of Business students launched the "Vegetables for Your Family" Community Garden at Kampung Merbau Sempak, Selangor. Designed to be low-maintenance and space-efficient, the garden was funded with RM15,150 (USD 3,490.46) in cash and RM8,000 (USD 1,843.15) in goods from sponsors. This initiative supports food sustainability and helps ease living costs for urban and suburban families.



## END POVERTY IN ALL ITS FORMS EVERYWHERE

### KPT-PRIHATIN KOMUNITI SEJAHTERA (KRIS) AND JELAJAH SEJUTA HARAPAN YBK PROGRAM

In June 2023, Yayasan Basmi Kemiskinan, Hospital Canselor Tuanku Muhriz, and JKM PPR Lembah Subang 1 Volunteers organized the KPT-Prihatin Komuniti Sejahtera (KRIS) and Jelajah Sejuta Harapan programs at PPR Lembah Subang 1. The event featured health screenings for 100 underprivileged household heads, who also received essential items and lunches. YBK provided a second-hand clothing station for attendees to select clothing as needed, promoting health awareness and community support.



### THE LAUNCHING OF HEALTH PRODUCT

UKM's Faculty of Health Sciences, in partnership with industry, launched three products to support healthy aging: the FallSA 2.0 app and web system, MindLumina health supplement, and TIPPI 3-in-1 drink. Developed by Prof. Dr. Devinder Kaur Ajit Singh and Prof. Dr. Suzana Shahar with Pantai Integrated Rehab, Aurora Health and ODO Solution, these innovations aim to boost mobility, support active lifestyles, and enhance health management for seniors





## END POVERTY IN ALL ITS FORMS EVERYWHERE

### UKM EXPERTS TO ERADICATE POVERTY

Universiti Kebangsaan Malaysia (UKM) is committed to advancing Sustainable Development Goal 1 (No Poverty) by actively engaging in community anti-poverty programs and shaping policies that address poverty at various levels. Through the efforts of our influential leaders, UKM is dedicated to eradicating poverty in all its forms, both within our community and beyond.

- **YBhg. Prof. Tan Sri Dato' Seri Dr. Noor Azlan Bin Ghazali**

YBhg. Prof. Tan Sri Dato' Seri Dr. Noor Azlan Bin Ghazali is a prominent figure in Malaysia's economic landscape, known for his extensive expertise in macroeconomic policy and development. His role has been pivotal in shaping Malaysia's economic strategies, particularly in areas such as economic reform, national development, and policy-making to reduce poverty nationally and globally. His contributions to fight against poverty are part of his broader mission to create an inclusive and equitable economy. Since 2023, Prof. Tan Sri Dato' Seri Dr. Noor Azlan has been involved in global economic policy including poverty reduction efforts through his role as Malaysia's Governor to the Governing Board of Economic Research Institute for Asean and East Asia (ERIA) from 2023-2025.



- **Dr. Nik Abd Rahim bin Nik Abdul Ghani**

Prof. Tan Sri Dato' Seri Dr. Noor Azlan Bin Ghazali, a leading expert in Malaysia's economic policy, has been instrumental in driving economic reforms and poverty reduction efforts. His work aims to build an inclusive economy in Malaysia and beyond. Since 2023, he has served as Malaysia's Governor to the Governing Board of the Economic Research Institute for ASEAN and East Asia (ERIA), contributing to global poverty reduction initiatives.







## END POVERTY IN ALL ITS FORMS EVERYWHERE

- **Dr. Wan Haslan bin Khairuddin**

Dr. Wan Haslan bin Khairuddin is another influential leader at UKM who has been appointed as the General Secretary of the Waqf, Endowment, and Zakat of Public University Committee in Malaysia. His role at the national level highlights his dedication to managing and distributing financial aid through Waqf and Zakat, both of which are crucial tools in the fight against poverty. Dr. Wan Haslan's work ensures that financial resources are used efficiently to benefit those who are most vulnerable, thereby supporting the national agenda of poverty eradication.



- **Prof. Dr. Rosilah Hassan**

In addition, Profesor Dr. Rosilah Hassan is a Professor at the Faculty of Information Science and Technology, UKM. Beyond her academic role at UKM, she is actively involved in empowering the local community, particularly in the surrounding areas. Her commitment to community engagement is highlighted by her appointment as the Head of the Muslimat Committee at Al-Hasanah Mosque in Bandar Baru Bangi for the 2023-2025 term. One of the initiatives she led in October 2023 was the "Laman Nazim Kebun Bandar," a program that included workshops on soil mixing and seedling techniques, plant cultivation using aquaponic methods, and a demonstration on preparing catfish. Through her leadership and community initiatives, Prof. Dr. Rosilah Hassan exemplifies a commitment to enhancing local skills and fostering sustainable practices within the local community.





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

SDG 2, or Sustainable Development Goal 2, aims to achieve Zero Hunger. It's one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development. Zero Hunger seeks to end hunger, achieve food security and improved nutrition, and promote sustainable agriculture worldwide.

The goal recognizes that despite progress in reducing global hunger over the years, millions of people still suffer from chronic hunger and malnutrition. Achieving Zero Hunger is not just about producing more food but also about ensuring access to nutritious and sufficient food for all, promoting sustainable agriculture practices, addressing food waste, and supporting small-scale farmers, particularly in developing countries.

UKM ensures food security for its staff and students by executing intervention initiatives aimed at diminishing hunger levels among its staff and students, fostering sustainable agricultural practices within its campus and advocating healthy dietary habits. This aligns with UKM Sustainability Policy 2030: UKM ensures food security for its staff and students through the implementation of intervention programs to reduce hunger rates among its staff and students, promote sustainable agriculture on campus, and encourage healthy eating practices.





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### FOOD SECURITY@UKM

UKM recognizes the importance of ensuring that students have access to nutritious food, implementing initiatives to alleviate hunger and promoting sustainable food production. A remarkable initiative on food sustainability on campus is the Sustainable Garden@UKM consisting of 4 gardens such as The Botanical Garden of UKM, UKM-YSD Sustainable Garden, Taman IlmueChancellery and Urban Urban Farming.

#### THE BOTANICAL GARDEN OF UKM

The Botanical Garden of UKM focuses on sustainable food production by growing a variety of local fruits and vegetables, such as corn, dragon fruit, pineapple, pak choy and more.



#### UKM-YSD SUSTAINABLE GARDEN

The UKM-YSD Sustainable Garden actively engages students in sustainable practices, offering opportunities for hands-on involvement and providing a free pickup service for daily essentials, reinforcing UKM's commitment to sustainability and community support





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### TAMAN ILMU@CHANCELLERY

Taman Ilmu@Chancellery, located within UKM's Chancellery Building, serves as a vibrant hub of sustainability, cultivating a variety of vegetables such as water cabbage, curry tree, and Brazilian spinach. This garden provides UKM citizens with easy access to fresh, organic produce, fostering healthier eating habits among students by offering nutrient-dense, pesticide-free food directly from the garden.



### URBAN FARMING BY MYAGROSIS CLUB

MyAgrosis Club has spearheaded an innovative urban agriculture (agro-tech) project at Plot A, UKM Botanical Garden, aligning with the SDG 2 agenda. They are cultivating three crops: eggplants using advanced fertigation techniques, melons through sustainable hydroponics and oyster mushrooms.







## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### UKM INTERVENTION PROGRAMMES TO PREVENT OR ALLEVIATE HUNGER AMONG STUDENTS AND STAFF

#### GEROBOK REZEKI

One of the food banks known as Gerobok Rezeki, is a cornerstone of UKM's efforts to support students facing food insecurity. The FoodBank shelves have been thoughtfully positioned in multiple high-traffic areas on campus, including Bangunan Pusanika, the University's Mosque and various faculty buildings such as UKM KL Campus.



#### RAHMAH STUDENT MENU

The Menu Siswa Rahmah, introduced by the Ministry of Higher Education in 2023, aims to reduce living costs for students, particularly those from the B40 group. In line with this initiative, UKM has implemented the menu at an affordable price of RM3.50, offering nutritious and quality meals. This initiative significantly impacts students by helping them save money, allowing them to allocate more funds for other essential daily needs. It fosters financial relief while maintaining a focus on students' well-being.





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

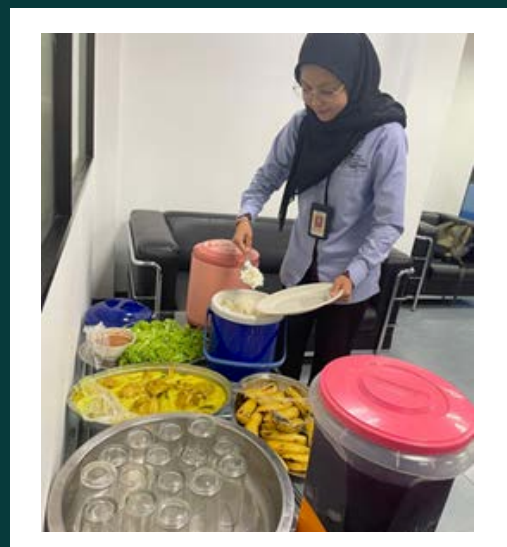
### FOOD PANTRIES

The food pantry provided for staff at UKM is an important initiative in addressing hunger issues among the campus community. This pantry not only offers basic food supplies but is also equipped with cooking facilities, enabling staff to prepare their own meals, especially for those who may be facing financial difficulties or lack easy access to nutritious food.



### FOOD SUPPLY DURING MEETINGS

The food provided during meetings typically includes nutritious meals such as rice, side dishes, fruits, and drinks, which not only satisfy hunger but also provide energy for staff to remain focused and productive throughout the meeting.







## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### ACCESSIBLE WATER AND FOOD DISPENSERS

UKM has installed 210 units of water dispensers and 50 units vending machines across the campus to ensure that all staff have constant access to basic necessities. With the vending machines, some of which offer free hot and ready-to-eat meals and strategically placed water dispensers in each college and faculty building, these resources are available everyday





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### SUSTAINABLE FOOD CHOICES ON CAMPUS

UKM has made significant strides in ensuring that the food options available on campus cater to a wide range of dietary preferences and nutritional needs. The opening of cafeterias that offer various food including for vegetarian and other healthy food choices is a testament to the university's commitment to the well-being of its community. These cafeterias provide a diverse selection of meals that are not only delicious but also designed to meet the nutritional requirements of both students



UKM supports wellness with diverse, nutritious food options, including vegetarian and healthy choices, for its campus community.





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### MENU SISWA RAHMAH

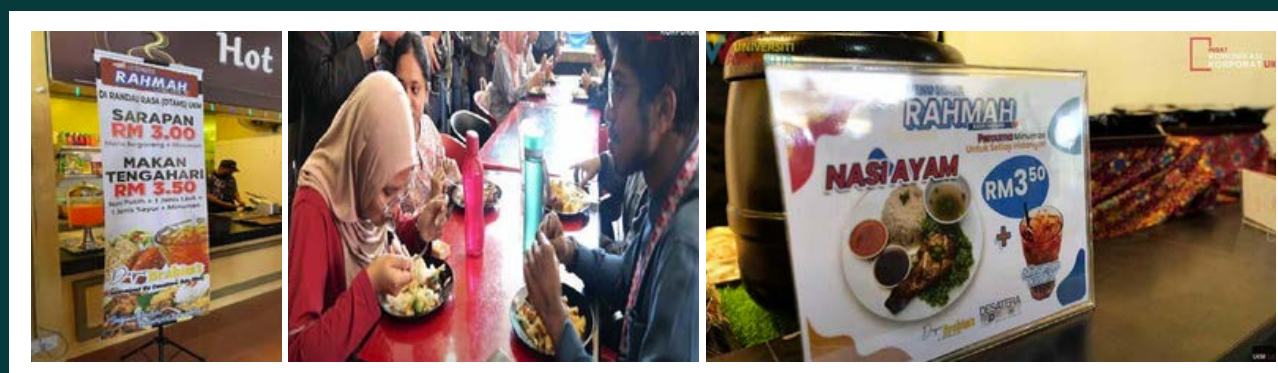
Menu Siswa Rahmah offers affordable and nutritious meals at just RM3.50 for the lunch menu which is white rice, chicken or fish dishes, vegetables and gravy or soup, while dinner is fried rice and fried egg.

According to Malaysia's Department of Statistics, lunch prices in Bangi, Ulu Langat differ from the Menu Siswa Rahmah with similar lunch items offered at UKM, even though they're in the same district.

Lunch items	Prices of lunch items (RM)	
	UKM	Ulu Langat district
Plate of white rice, chicken and vegetable	3.50	9.25
Drink		1.70
Total	3.50	10.95
Differences	UKM lunch items in Menu Siswa Rahmah is RM7.45 cheaper than the average lunch price in the Ulu Langat district	

This average market price of the lunch items in Ulu Langat was released in December 2023 by the Department of Statistics, Ministry of Economy.  
(<https://open.dosm.gov.my/dashboard/consumer-prices>)

This initiative is available in all food outlets in all UKM campuses, including Bangi, Cheras, and Kuala Lumpur, ensuring that all students, regardless of their location, can benefit from affordable and nutritious food choices





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### NATIONAL HUNGER INITIATIVES

#### AGRONOMY: EMPOWERING COMMUNITY FOOD SUSTAINABILITY PROGRAM

The Center for Entrepreneurship and EKS Development (UKM-CESMED) has successfully implemented the Agronomy Program: Empowering Community Food Sustainability at Dewan Komuniti Kampung Bukit Changgang, Banting, Selangor, Malaysia on 23rd July, 2023. This program has involved a total of 70 participants from Mukim Tanjong Dua Belas who are also assisted by 10 facilitators who are members of the MyAgrosis Club.



#### THE INTEGRATED COMMUNITY GARDEN PROGRAM: VEGETABLES FOR YOUR FAMILY (SUKA)

A group of students from the UKM Graduate School of Business (UKM-GSB) was successfully implemented in March 2023—The Integrated Community Garden Program, themed "Vegetables for Your Family" in Kampung Merbau Sempak, Shah Alam, Selangor. With cash sponsorships amounting to RM15,150.00 (USD 3,490.46) and goods worth RM8,000.00 (USD 1,843.15) from government agencies, private companies, and individuals, this initiative addressed the rising cost of living faced by urban and suburban communities.







## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### KEBUN NURI NUTRISI: EMPOWERING B40 STUDENTS THROUGH AGRICULTURE AND ENTREPRENEURSHIP

One of the flagship programs organized by UKM is Kebun Nuri Nutrisi, funded by Bank Rakyat Malaysia is specifically designed to assist B40 students by providing them with practical knowledge in agriculture and entrepreneurship.



### TANAMAN MINI FERTIGASI: SUPPORTING SINGLE MOTHERS AND LOW-INCOME HOUSEWIVES

Another significant program under UKM's initiatives is the Mini Fertigation Crops for Single Mothers and Low-Income Homemakers, which focuses on empowering single mothers and low-income housewives.





## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### TAMAN BOTANI BANGI: A HUB FOR SUSTAINABLE FARMING PRACTICES

Taman Botani Bangi, under the Faculty of Science and Technology (FST) at UKM, plays a crucial role in supporting local farmers and food producers, researchers, and citizen scientists by providing access to state-of-the-art facilities. These freely accessible facilities, including laboratories, greenhouses, machinery, plant stocks and plant kits, are invaluable resources open to all.



### GREENHOUSE FARMING: ENHANCING YEAR-ROUND CROP PRODUCTION

The greenhouses at Taman Botani Bangi are designed to offer users, especially local farmers the ability to grow crops throughout the year, regardless of external weather conditions







## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### UKM UNIPEQ: ENSURING FOOD SAFETY AND QUALITY FOR LOCAL PRODUCERS

UKM UNIPEQ is a Capability Development Centre at UKM dedicated to advancing the food, agriculture and related industries. It focuses on quality assurance, research, training and consultancy services to support industry growth and innovation, aiming to be a nationally recognized and reputable institution in these sectors.

Services included:

1. Food Safety Testing and Compliance
2. Identifying and Mitigating Hazards
3. Food Labelling Analysis for Transparency

For more information, visit this link <https://www.unipeq.com.my/>

**'TESTED BY UNIPEQ (TBU)' CERTIFICATION SCHEME AND SDGS**

**ENSURING QUALITY AND SAFETY IN FOOD PRODUCTS**

**Certification Highlights:**

- **Rigorous Testing Protocols:** Ensures compliance with national and international standards
- **Consumer Confidence:** Enhances trust in safety, nutritional integrity, and overall quality
- **Sustainable Practices:** Promotes transparency and trust throughout the food supply chain

**Commitment to Excellence:**

- Verifies product quality and safety
- Empowers consumers with accurate information
- Supports healthier lifestyles

**SDG 2: Zero Hunger**

- Promotes food security
- Ensures safe and nutritious food options

**SDG 12: Responsible Consumption and Production**

- Encourages sustainable consumption patterns
- Ensures food safety and environmental sustainability

**ENSURING QUALITY AND SAFETY IN THE FOOD INDUSTRY**

**Food Safety Testing**

- Identifies hazards (microbial, chemical, allergenic)
- Safeguards public health
- Boosts consumer confidence

**Food Labelling Analysis**

- Ensures accurate content and nutritional information
- Promotes transparency and trust

**Compliance and High Standards**

- Meets regulatory requirements
- Maintains high quality and safety standards

**SDG 2: Zero Hunger**

- Promotes food security and nutrition
- Ensures access to safe, nutritious food

**SDG 3: Good Health and Well-being**

- Mitigates health risks from foodborne illnesses
- Enhances public health and consumer confidence

**UNIPEQ'S TRAINING PROGRAMS**

**ENHANCING LOCAL CAPACITY THROUGH TARGETED TRAINING**

**Key Training Programs:**

- **Sensory Evaluation Training:** Improves food quality and consumer acceptance
- **Spicing Drying Process:** Enhances food preservation techniques for food security
- **Food Executive Professional Course:** Ensures compliance with food standards

**Empowering Communities:**

- Equip individuals with essential skills in food technology and safety
- Promote sustainable agricultural practices
- Strengthen local food systems

**SDG 2: Zero Hunger**

- Improves food security and nutrition
- Supports sustainable agriculture

**SDG 4: Quality Education**

- Provides inclusive, equitable education
- Promotes lifelong learning opportunities

**IKM PRESIDENT LABORATORY AWARD AND SDGS**

**EXCELLENCE IN LABORATORY PRACTICES AND RESEARCH**

**Award Recognition:**

- IKM President Laboratory Award (2023) Honored for excellence in food safety and technology

**Key Contributions:**

- Advancing Glycemic Index (GI) testing
- Enhancing food safety and quality assurance
- Promoting technological innovation

**Commitment to Standards:**

- Adheres to national and international standards
- Pioneers advancements in food technology research
- Implements cutting-edge laboratory practices

**SDG 2: Zero Hunger**

- Enhances food safety
- Ensures safe food options
- Contributes to food security and sustainable agriculture

**SDG 9: Industry, Innovation, and Infrastructure**

- Promotes innovation
- Enhances industrial infrastructure
- Advances food technology research



## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

### UKM BAZAR FESTIVAL

Each year, UKM, through UKM-CESMED, organizes the Bazar Program, offering food producers in the community an opportunity to generate income. In 2023, this Bazar was held from March to April, coinciding with the fasting month for Muslims, 46 vendor stalls with tents were set up, with 27 allocated to community vendors and the remaining to student vendors.







## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

SDG 3, or Sustainable Development Goal 3, focuses on ensuring good health and well-being for all people, regardless of age, gender, or socio-economic status. It is one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development.

The goal of SDG 3 is to promote physical and mental health and to ensure access to quality healthcare services for everyone, including essential services such as vaccinations, reproductive health care, and access to medicines. It also aims to reduce the global burden of diseases, including communicable diseases such as HIV/AIDS, malaria, and tuberculosis, as well as non-communicable diseases such as diabetes and cardiovascular diseases.

Achieving good health and well-being is not only essential for individual well-being but also for sustainable development overall. Healthy populations are more productive, better able to contribute to their communities, and more resilient in the face of challenges such as disease outbreaks or natural disasters.

UKM gives precedence to both mental and physical well-being by providing easily accessible services, advocating for healthy lifestyle options, and organizing awareness campaigns on public health for its citizens. This aligns with UKM Sustainability Policy 2030: UKM prioritizes mental and physical well-being by offering accessible services, promoting healthy lifestyle opportunities, and conducting awareness programs on public health to its citizens.



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### COLLABORATIONS AND HEALTH SERVICES

#### HEALTHCOMM X UNICEF 4D CENTER

UKM HEALTHCOMM x C4D Centre focuses on general health issues that plague the local population, and basic child and youth services. In 2023, they had a fieldwork of Education Program and Health Intervention in Felda Aring, Gua Musang for three months, involved 176 adults.



#### COMMUNITY ORAL HEALTH PROGRAM

UKM Faculty of Dentistry in collaboration with the Terengganu State Dental Health Division, organized the Community Oral Health Program on June 10, 2023. With nearly 500 attendees in total from the local community, the program offered a range of beneficial activities designed to promote oral health and overall well-being.





## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### SENIOR CITIZEN DAY PROGRAM 2023

The Centre for Healthy Aging & Wellness (H-CARE) at the Faculty of Health Sciences, UKM, in collaboration with the Hulu Langat District Public Health Office, Senior Citizens Center (PAWE@UKM) and the Kajang Municipal Council (MPKj), organized a local-level Senior Citizen Day Program 2023 on October 7, 2023



### Post-Flood Relief Health Checks in Kampung Bangi

Student Affairs Center, staff from the University Health Centre and volunteer students conducted door-to-door health checks for flood victims.

The door-to-door health checks included monitoring vital signs such as blood pressure and blood sugar levels, as well as providing health consultations tailored to the needs of flood victims.







## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### THE COMMUNITY ORAL HEALTH PROGRAM



Faculty of Dentistry, UKM, in collaboration with the Terengganu State Dental Health Division organized The Community Oral Health Program on June 2023. The program offered a range of beneficial activities designed to promote oral health and overall well-being to nearly 500 attendees from local community



### ORAL HEALTH EDUCATION PROGRAM IMPLEMENTATION



Faculty of Dentistry, UKM collaborate with Universitas Hasanuddin (UNHAS), Universitas Negeri Makassar (UNM), and the Embassy of the Republic of Indonesia in Kuala Lumpur organized Oral Health Education Program on 31st December 2023. The project focused on providing oral health education to stateless children residing in Madrasatul Mahmudiah, Kampung Chubadak Hilir, Sentul, Kuala Lumpur.





## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### STUDENTS COMMUNITY ENGAGEMENT PROGRAM (BAKTISISWA 2023)



On July 15, 2023, UKM dental students participated in the Students Community Engagement Program (BaktiSiswa 2023) at Al Ikhlas Refugee School & Centre in Batu Caves. This program was part of an ongoing effort to involve UKM students in volunteerism, with a specific focus on providing rural health education to refugee students.

## SHARED SPORTS FACILITIES

Universiti Kebangsaan Malaysia (UKM) offers a variety of shared sports facilities to support the physical well-being and fitness of its students, staff, and the surrounding community. These facilities are designed to promote active and healthy lifestyles, and many of them are accessible for both recreational use and organized sports events.

### AZMAN HASHIM UKM SPORTS ARENA



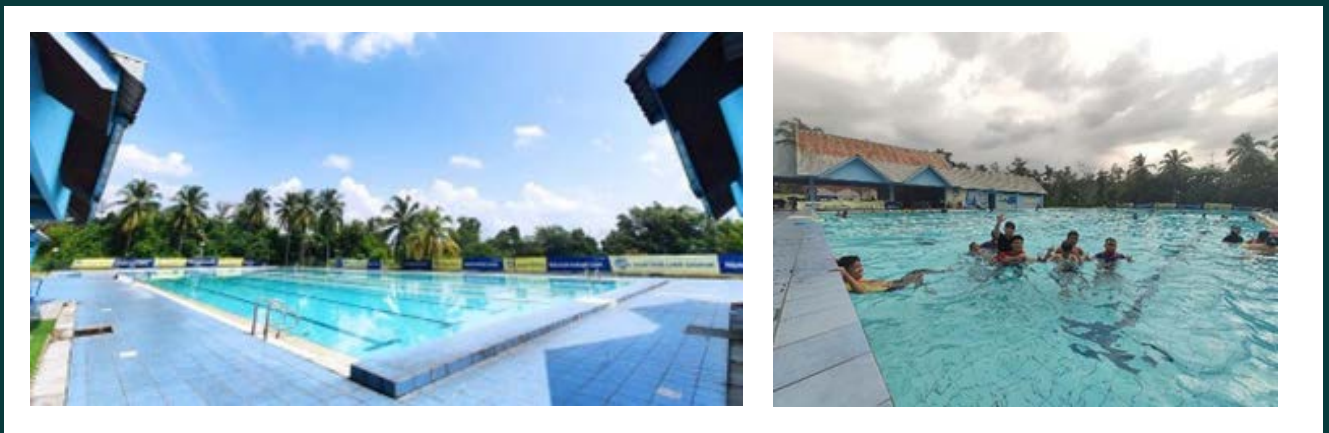


## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### AZMAN HASHIM UKM SPORTS ARENA



### UKM SWIMMING COMPLEX



### TENNIS AND SQUASH COURTS

UKM also provides both outdoor and indoor tennis courts, as well as squash courts, which are open for use by students, staff, and community members that located in UKM Bangi.







## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### UKM STADIUM



### DANAU COLF CLUB UKM



### KOLEJ PERMATA PINTAR'S SPORTS COMPLEX

The Kolej PERMATA Pintar Sports Complex at UKM is an award-winning facility, recognized with the Silver PAM Award in 2015 for Sports & Recreation Category. It features a large outdoor field and a running track. The complex supports a variety of sports and recreational activities, serving both educational and competitive purposes such as inter-school competition.



### SWIMMING POOL

The swimming pool at Pusat GENIUS@Pintar Negara, UKM is an Olympic-size facility located in a scenic area, facing the UKM forest reserve. It offers a high-standard swimming experience, providing space for training, events, and recreational activities. The pool is designed to meet the needs of students and visitors for both professional and leisure swimming.





## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

# SEXUAL AND REPRODUCTIVE HEALTH CARE SERVICES FOR STUDENTS

## SEXUAL & REPRODUCTIVE (SRH) CLINIC

Sexual and reproductive health care services are provided by the Sexual and Reproductive Health (SRH) Clinic located at University Health Centre, UKM, Bangi. It provides comprehensive sexual and reproductive health care services free of charge to all campus residents, especially students.

Services include:

- Reproductive Health
- Gender and Sexuality
- Family Planning
- Sexually Transmitted Diseases (STDs)



## OBSTETRICS & GYNECOLOGY (O&G) CLINIC



The Obstetric Clinic provides care and treatment services for referred pregnant women. Meanwhile, the Gynecology Clinic offers general gynecological services, including infertility cases, gynecology cases, uro-gynecology cases and menopause cases.

Among the services offered are:

- Maternal Fetal Medicine
- Gynecologic Oncology
- Infertility
- Menopause
- Urogynaecology
- Adolescent & Pediatric Clinic
- Gynecology Clinic





## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### STUDENT MENTAL HEALTH SUPPORT

#### KEMBARA KAUNSELOR

Kembara Kaunselor Program involves six faculties and five residential colleges. 138 students from five residential colleges namely Kolej Pendeta Za'ba, Kolej Ibrahim Yaakub, Kolej Ibu Zain, Kolej Dato' Onn and Kolej Aminuddin Baki and 690 students from six faculties including the Faculty of Islamic Studies, Faculty of Social Sciences and Humanities, Faculty of Science and Technology, Faculty of Economics and Management, Faculty of Law, and Faculty of Information Science and Technology participated in the session to meet counselors.

This outreach effort has been instrumental in engaging students in meaningful conversations about their mental well-being, providing on-the-spot support, and reducing the stigma surrounding mental health issues.



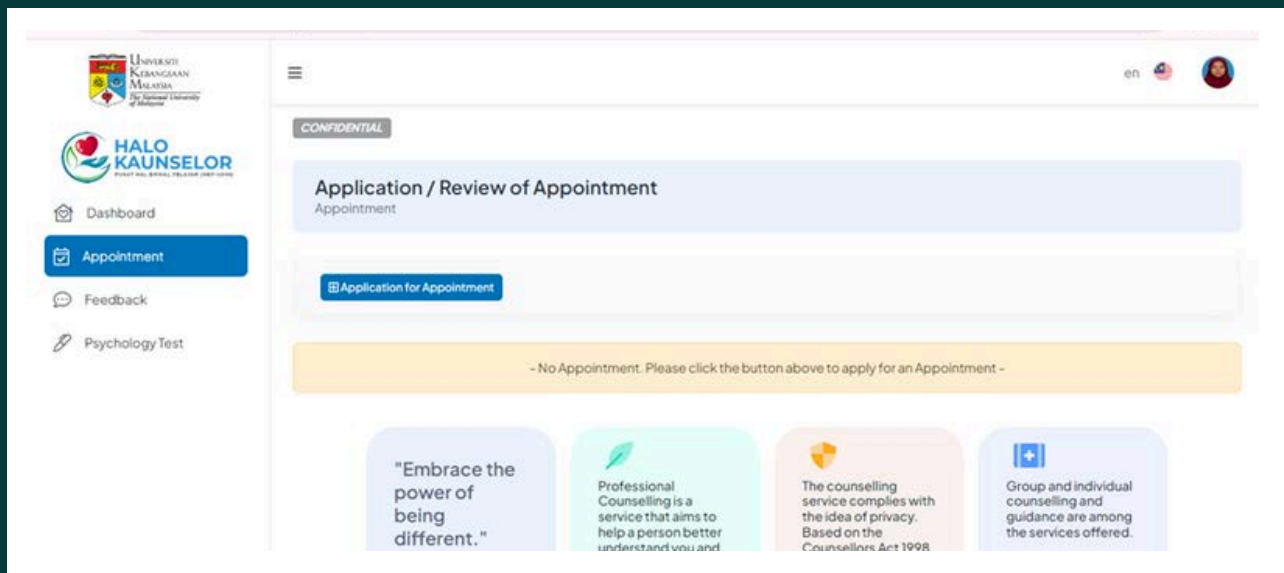


## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### STAFF MENTAL HEALTH SUPPORT

#### HALOKAUNSELOR

HaloKaunselor are mental health services provided free of charge to all staff, including counseling sessions under the counseling team at Performance Unit Human Resource Division. Staff can make appointments online through the 'Halo Kaunselor' application at any time.



#### PSYCHIATRIC DEPARTMENT HCTM

UKM Staff can also get physiological and Psychiatric treatment at Psychiatric Department Hospital Canselor Tuanku Muhriz UKM for those working at Cheras Campus for who need help.





## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

### PSYCHOLOGY AND CONSULTATION CLINIC

Centre for Research in Psychology and Human Well-Being (PKPK) under Faculty of Social Science & Humanities at UKM offers professional psychological services, including mental health counseling. Staff members, as well as their families, are eligible for these services, often at discounted rates.



### JOM SEMBANG KAUNSELOR PROGRAM

The Human Resources Division and Career Development Unit, UKM Registrar Department, in collaboration with the Human Resources Department of Hospital Canselor Tuanku Muhriz (HCTM) and the Human Resources Department of Hospital Tunku Ampuan Besar Tuanku Aishah Rohani-UKM Children's Specialist Hospital (HPKK), organized the "Jom Sembang Kaunselor" Program in a series during October 2023 in conjunction with Counseling Month.

The program is conducted online, involving more than 1000 of UKM staff of all sessions, including participants from the Cheras and Kuala Lumpur campuses.





## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

SDG 4, or Sustainable Development Goal 4, aims to ensure inclusive and equitable quality education for all. It is one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development. The goal of SDG 4 is to ensure that all people, regardless of gender, age, ethnicity, or socio-economic background, have access to quality education throughout their lives. This includes not only basic education but also opportunities for lifelong learning, vocational training, and skill development.

Quality education is essential for individual empowerment, economic growth, social cohesion, and sustainable development. It helps to reduce poverty, improve health outcomes, promote gender equality, and foster peace and stability in communities.

SDG 4 encompasses a wide range of targets, including ensuring that all girls and boys have access to free, equitable, and quality primary and secondary education, promoting access to affordable and inclusive early childhood development, increasing the number of people with relevant skills for employment, and promoting education for sustainable development and global citizenship.

In UKM, sustainability principles have been integrated into the curriculum, providing specialized courses and workshops on SDGs, along with educational programs covering various SDG topics accessible to all, including non-UKM staff and students. This aligns with UKM Sustainability Policy 2030: UKM integrates sustainability principles into the curriculum and offers specialized courses and workshops on SDGs, as well as providing educational programs in various SDG fields for everyone, including non-UKM staff and students.



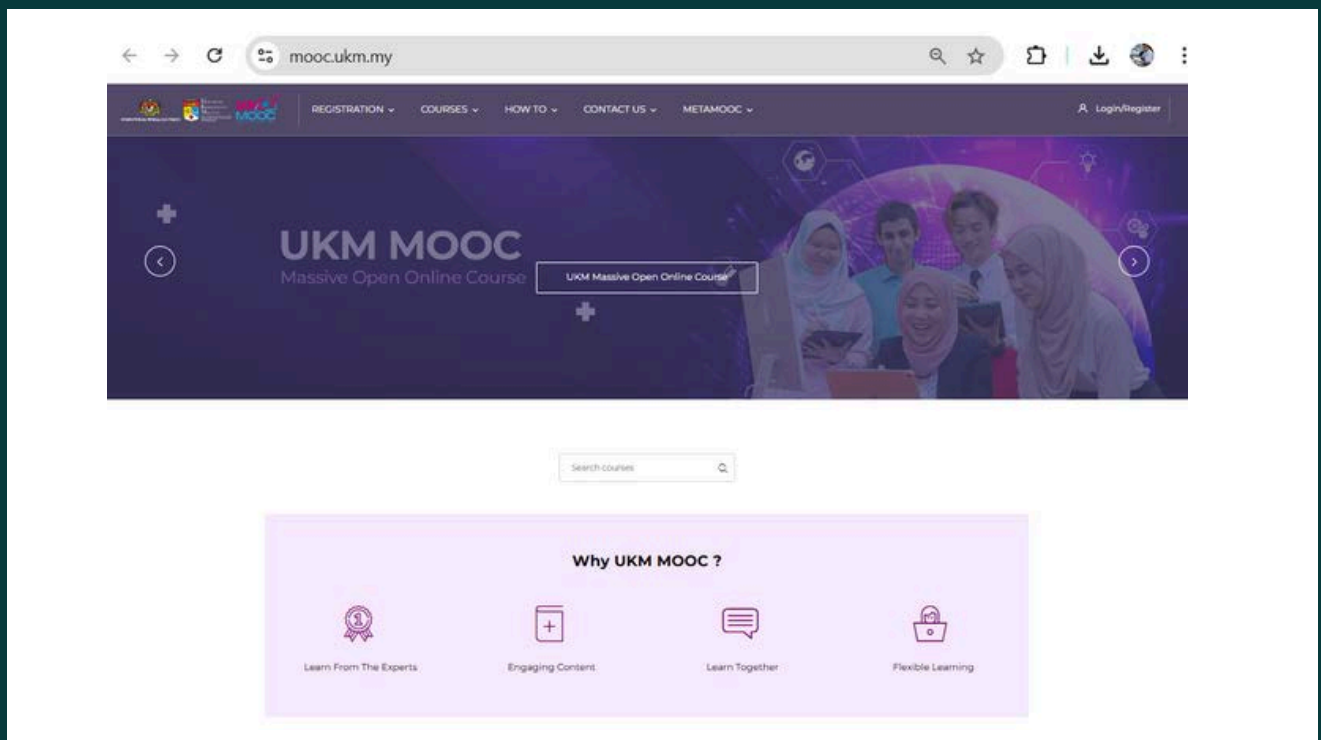


## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

### LIFELONG LEARNING MEASURES

#### UKM MOOC (MASSIVE OPEN ONLINE COURSES)

UKM MOOC (Massive Open Online Courses) is an online learning platform provided by UKM that offers a wide range of courses. These courses are designed to provide free and accessible educational resources to anyone, regardless of whether they are enrolled at the university. Topics range from academic subjects to professional and self-development courses, often with certificates available upon completion. It aims to promote lifelong learning and knowledge sharing beyond traditional academic settings. UKM MOOC which currently contains 97 courses offered and 212 registered courses.



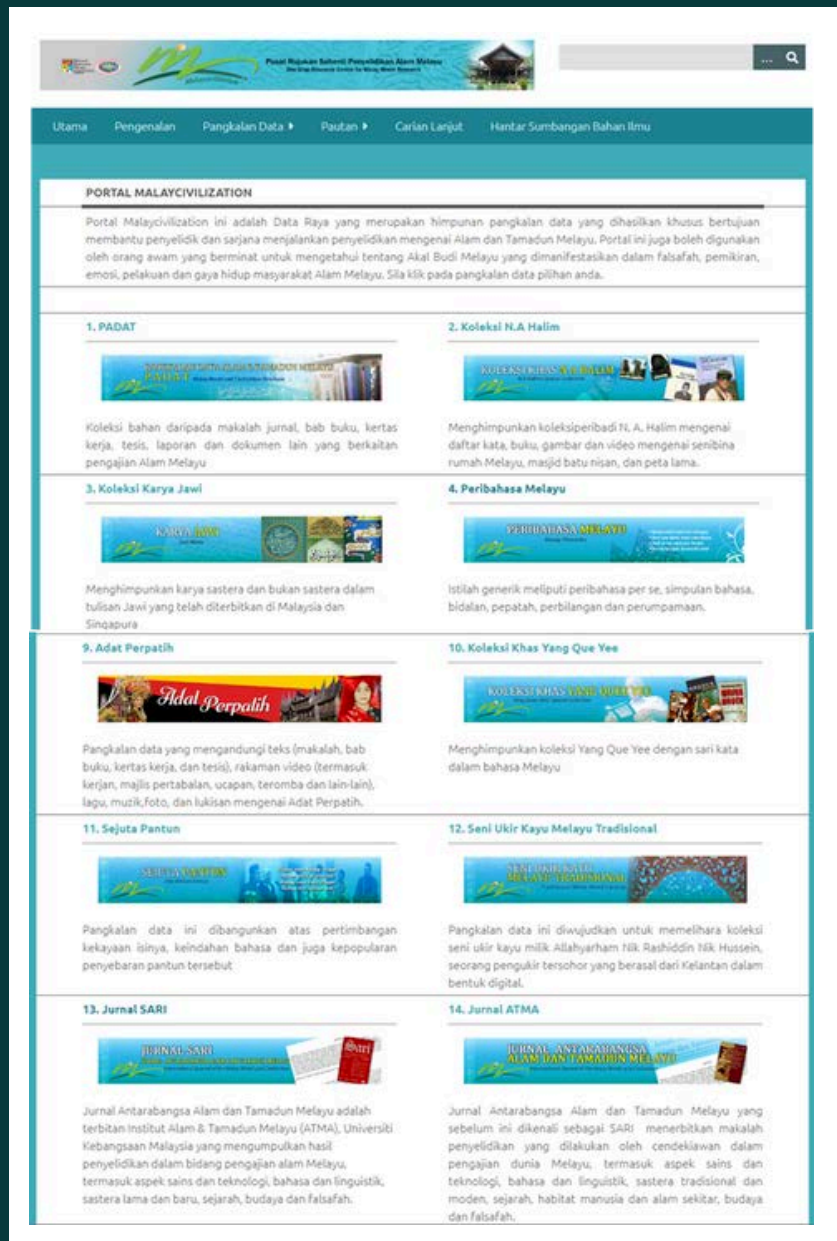
#### MALAYCIVILIZATION PORTAL (ONLINE RESOURCE CENTER FOR MALAY WORLD RESEARCH)

To-date, writings, published and unpublished, on Malay World Studies are scattered in various forms and under a number of different fields of studies and disciplines. As the corpus of such knowledge increases and becomes more varied, one major challenge is to provide a fast and efficient information retrieval system to fulfill the needs and requirements of researchers and scholars in Malay World Studies. This portal is set up to broaden and deepen research on Malay world studies.

## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

It provides free access to a wealth of academic material and resources. Various Specialty Databases, the portal hosts over 20 niche databases related to different aspects of Malay culture, heritage and knowledge systems like:

- Malay proverbs
- Baba Malay pantuns
- Malay wood carving
- Malay martial arts (silat)
- Malay ethno-medicine
- Architectural heritage





## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

### DEBAT PERDANA MADANI 2023

The Debat Perdana Madani 2023, held at UKM and officiated by the Minister of Higher Education, Dato' Seri Mohamed Khaled Nordin, emphasized the importance of intellectual discourse as a national project aimed at generating diverse ideas and perspectives. In his keynote address, the Minister highlighted the event as a platform for intellectual contributions to be shared with the country, ensuring that insights from the panel discussions would receive serious consideration. The debate features 10 panelists from various backgrounds with three main slots which are Bicara Sejahtera Malaysia MADANI, 3 Panel Presentations and Forum Malaysia MADANI.

Bicara Sejahtera Malaysia MADANI, where social and economic aspects of the "Malaysia MADANI" concept were discussed by experts like Prof. Tan Sri Dato' Seri Dr. Noor Azlan Ghazali; a session with three distinguished panelists such as a civilization studies expert, Prof. Dato' Dr. Azizan Baharuddin from Universiti Malaya (UM) dan social studies specialist Dr. Charanjit Kaur from Universiti Tunku Abdul Rahman (UTAR).







## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

### OCEAN MALAYSIA LANGKAWI

UKM also hosts educational events as an ad-hoc program through Institute for Environment and Development (LESTARI) in collaboration with Langkawi Development Authority (LADA), to officially launch “Ocean Malaysia Langkawi” on 27th February 2023. Ocean Malaysia Partnership is a flagship program, inspired by the achievement of Ocean Canada Partnership and led by Dr. Lubna Alam, Fellow, LESTARI. The principal goal of Ocean Malaysia is to find benefits of humanity through understanding and addressing threats facing Malaysia’s West coast, East coast and Borneo regions and seek opportunities to develop a shared vision for the future of our oceans and community.



### SCHOOL HOLIDAY PROGRAM: STEM WORKSHOP

The STEM workshops organized by the Centre for Engineering Education Research, Faculty of Engineering and Built Environment (UKM), provide an opportunity for school students to deepen their knowledge in engineering and technology. This program aims to increase awareness and interest in Science, Technology, Engineering, and Mathematics (STEM) among secondary school students while introducing them to various fields in engineering, such as mechanical, electrical, and civil engineering.





## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

### SEKOLAH@UKM: COMPUTING CAMP

The Student Clubs (SIG @FTSM) at the Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia, proudly organized the Computing Camp 2023 during the December school holidays. Responding to high demand, this year's camp introduced enhanced modules that spotlight cutting-edge IR4.0 technologies, including Drones, Internet of Things (IoT), Augmented Reality (AR) & Virtual Reality (VR), Robotics, along with hands-on skills in mobile application programming and video editing for creative content. These exciting elements are broken down into 15 unique activities designed to captivate participants and inspire future tech innovators.







## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

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### IKIM-LESTARI ECOLOGY CAMP 2023

From September 21st to 23rd, 2023, the Malaysian Institute of Islamic Understanding (IKIM), in collaboration with the Institute of Environmental and Development (LESTARI), UKM, successfully organized the inaugural IKIM-LESTARI Ecology Camp 2023 over a span of 3 days at the Langkawi Research Center (PPL), Langkawi, Kedah. Themed "Geopark Exploration: Delving into Our Ecosystems," this camp was conducted in close collaboration with PPL-ALAF UKM and the Langkawi Development Authority (LADA), aiming to provide direct exposure to participants regarding ecological aspects, particularly through a comprehensive understanding of ecological concepts, theories, and applications via practical activities featured in the camp.







## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

### EMPOWERING CHILDREN IN DISASTER RISK REDUCTION (DRR)

Southeast Asia Disaster Prevention Research Initiative (SEADPRI) has embarked on the Sabah Field Mission, with specific attention to the geohazard-prone region of Kundasang. The aim of this mission is to integrate DRR education into the curriculum of Sekolah Kebangsaan Kundasang. This ad hoc workshop was organized on 4 October, 2023, as part of the Science and Technology Week on DRR (STDR3 Week) and was made possible under the UNICEF Malaysia fund for Youth and Young Professionals Empowerment: Implementing SETI for Disaster Resilience. The event was a collaborative effort involving various key organizations, including U-INSPIRE Malaysia@UKM, Disaster Preparedness and Prevention Centre (DPPC), Malaysia-Japan International Institute of Technology (MIIT), Universiti Teknologi Malaysia (UTM) Kuala Lumpur, and UNICEF Malaysia.



The year 4 and year 5 students at SK Kundasang have been actively engaged in the development of the mudslide model and the school risk mapping activity.



## ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

UKM has a policy that ensures access to these activities is accessible to all, regardless of ethnicity, religion, disability, immigration status or gender by allocating lifelong learning as outlined in the Teaching and Learning Policy (P&P)





## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

SDG 5, or Sustainable Development Goal 5, is dedicated to achieving gender equality and empowering all women and girls. It is one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development.

The goal of SDG 5 is to end all forms of discrimination and violence against women and girls, ensure equal opportunities for leadership and decision-making, and ensure universal access to sexual and reproductive health and rights. Gender equality is not only a fundamental human right but also a necessary foundation for a peaceful, prosperous, and sustainable world.

Achieving gender equality requires addressing deep-rooted inequalities and discriminatory practices in laws, policies, and societal norms. This includes promoting equal access to education, healthcare, and economic opportunities, as well as challenging harmful gender stereotypes and promoting women's participation and leadership in all spheres of life.

UKM advocates for equality across its organizational structure, encompassing policies and research initiatives, while also empowering women through educational endeavors and outreach initiatives within the community. This aligns with UKM Sustainability Policy 2030: UKM promotes equality within the university organization from policies to research, and empowers women through education and community outreach programs.





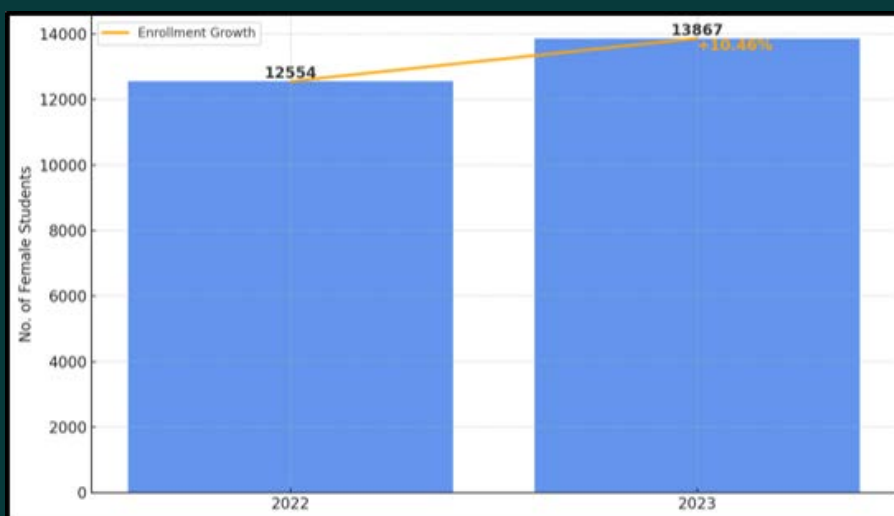
## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### STUDENT ACCESS MEASURES

Women's Admission Applications and Acceptance Rate (2021-2023)

Year	Total Student Applications	Total Female Applications	Percentage of Female Application	Total Student Accepted	Total Female Accepted	Percentage of Female Accepted
2021	29641	21466	72.42%	7159	4620	64.53%
2022	14872	9040	60.79%	6244	4121	66.00%
2023	17958	11110	61.87%	6021	3931	65.29%

Bar Chart: Yearly Growth of Female Student Enrollment in UKM (2022-2023)



### STUDENT ACCESS MEASURES

UKM recognizes the importance of ensuring that students have access to nutritious food, implementing initiatives to alleviate hunger and promoting sustainable food production. A remarkable initiative on food sustainability on campus is the Sustainable Gardens@UKM consisting of 4 gardens such as The Botanical Garden of UKM, UKM-YSD Sustainable Garden, Taman Ilmiah@Chancellery and Urban Urban Farming.



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### WOMEN'S ACCESS SCHEMES

#### MENTOR-MENTEE PROGRAM



This picture shows mentees meeting with their mentor during the Mentor-Mentee Week organised by the Faculty of Islamic Studies.

The mentor-mentee program, compulsory for all students from their first to final year, provides personalised guidance to help students succeed academically. Mentors are typically academic staff from the student's own faculty, ensuring they understand the unique academic environment and challenges their mentees face. Given that UKM has more female students than male, this program is vital for empowering women and promoting gender equity, helping all students, particularly underperforming ones, excel in their studies.

#### WOMEN ENTREPRENEURS MENTORING SCHEME

The mentor-mentee program, compulsory for all students from their first to final year, provides personalised guidance to help students succeed academically. Mentors are typically academic staff from the student's own faculty, ensuring they understand the unique academic environment and challenges their mentees face. Given that UKM has more female students than male, this program is vital for empowering women and promoting gender equity, helping all students, particularly underperforming ones, excel in their studies.



This picture shows Representatives from USANITA, UKM, and EWA attended the signing ceremony of the Letter of Intent between USANITA, UKM, and EWA at the UKM Chancellery in Bangi.



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### LEADERSHIP SHADOWING PROGRAM

The Leadership Shadowing Program is an annual program organised by Profesional UKM for newly appointed lecturers. The program is one of the university's efforts to provide exposure, experience, and observation in leading the university both now and in the future. This talent group represents the future leaders of the university. The leaders are members of the university's top management, including the Vice-Chancellor, Deputy Vice-Chancellors, Pro Vice-Chancellors, Legal Advisors, Deans, and Directors.



The images show the first mentor-mentee meetings from the 2023 Leadership Shadowing Program.

### WOMEN LEADERSHIP WEBINARS



UKM also organised numerous programs related to women's access schemes, usually under the Tun Fatimah Hashim Women's Leadership Centre. In 2023, the centre held several "Women Leadership Webinars 2023," including a webinar on "Women's Leadership in Education and Community Research," targeting all women lecturers and students.

This picture shows a poster of Women's Leadership Webinar 2023 Series 3/2023, titled "Women's Leadership in Education and Community Research."





## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

Additionally, another "Women Leadership Webinar 2023" titled "Self-Empowerment in Leadership" featured a keynote speaker, Prof. Emerita Tan Sri Dato' Seri Dr. Sharifah Hapsah Syed Hasan Shahabudin, the President of the National Council of Women's Organizations Malaysia and former Vice-Chancellor of UKM.



This picture shows a poster of a webinar entitled Self-Empowerment in Leadership organised by Tun Fatimah Hashim Women's Leadership Centre.

## WOMEN'S APPLICATION IN UNDERREPRESENTED SUBJECTS

### CAREER AND ENTREPRENEURSHIP EXPO (CEE) 2023

The Career and Entrepreneurship Expo (CEE) 2023, held at UKM's Chancellor Tun Abdul Razak Hall (DECTAR) on May 23-24, provided a platform for women and men to explore career and business opportunities. The event promoted gender equality, especially in sectors with low female representation, and featured STEM companies to encourage interest in Science, Technology, Engineering, and Mathematics. High school students were also invited, offering them early exposure to careers and educational pathways, with a focus on inspiring women to pursue studies and careers in STEM fields.



These pictures show women actively participating in the Career and Entrepreneurship Expo (CEE) 2023, exploring career and entrepreneurial opportunities, including STEM-related fields



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### PROGRAM CEO DAY@UKM

The CEO Day@UKM program, organised by the Department of Food Science, Faculty of Science and Technology (FST) with the Malaysian Palm Oil Council (MPOC), offered students, especially women, a chance to engage with industry leaders. Open to all students, the event provided insights into industry practices and fostered connections for future job and internship opportunities. The program featured three keynote women speakers, inspiring students and the public by showing that women can excel and lead in STEM fields, promoting female participation and leadership in traditionally male-dominated industries.



This picture shows a poster of CEO Day@UKM, highlighting that three out of the six keynote speakers were women who excel in STEM sectors, demonstrating their leadership and success in these traditionally male-dominated fields.



This picture shows two women from Kuala Lumpur Kepong Berhad participating as exhibitors during CEO Day@Faculty, showcasing their involvement in the event.



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### HSBC MALAYSIA BUSINESS CASE COMPETITION 2023

A team of UKM female students won third place in the HSBC Malaysia Business Case Competition 2023, a field often dominated by men. This achievement highlights the growing success and participation of women in competitive business environments and reflects UKM's commitment to supporting and empowering women across all fields. By excelling in this competition, these students inspire others to pursue business studies and careers, fostering gender balance and equality.



This picture shows the UKM representatives together with their lecturer (second from right) after winning third place in the HSBC Malaysia Business Case Competition 2023.





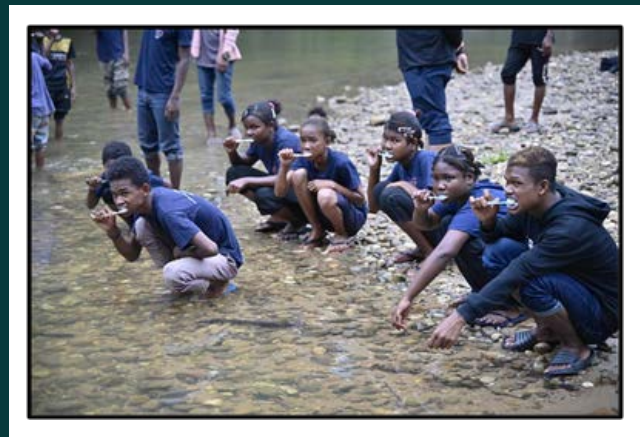
## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### UNIVERSITY OUTREACH TO PROMOTE STEM AMONG BATEQ COMMUNITY

The Faculty of Science and Technology Student Organization (PMFST), with Yayasan Food Bank Malaysia (YFBM), organised the “CSR Kem Rimba Bateq PMFST” program from November 10-12, 2023, at Taman Negara Pahang. The program introduced the Bateq community, especially the girls, to STEM, particularly Mathematics and Microbiology, to inspire interest and build essential skills in traditionally male-dominated fields. This initiative aimed to empower Bateq girls and promote gender equality, providing educational resources to support their future in a STEM-driven world.



This picture shows a UKM student teaching a Bateq girl how to solve Mathematics problems, focusing on promoting STEM education among young girls.



This picture depicts the Bateq community learning how to brush their teeth correctly, an important part of teaching proper hygiene practices.



This picture shows the Faculty of Science and Technology Student Organization (PMFST) and Yayasan Food Bank Malaysia (YFBM) with the Bateq community during the CSR Kem Rimba Bateq PMFST program.



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### WOMEN'S PROGRESS MEASURES

#### TUNAS PERMATA UKM

Tunas Permata UKM is a vital facility designed to ease the childcare responsibilities of both staff and students at UKM. By offering convenient and reliable care, Tunas Permata allows parents, especially mothers, to focus on their work or studies with peace of mind, knowing their children are in a safe and supportive environment. This facility is part of UKM's broader initiative to foster a family-friendly campus, encouraging a balanced lifestyle for all members of the university community.



This picture shows the Tunas Permata Building located at the Education Faculty

#### TASKA HOSPITAL CANSELOR TUANKU MUHRIZ

The Taska Hospital Canselor Tuanku Muhriz, UKM, is categorised as a workplace childcare centre, where Taska HCTM accepts more than 10 children and is an exempted registered childcare centre under the Department of Social Welfare (JKM). This childcare centre caters exclusively to children aged 3 months to 4 years old.

The childcare services are classified according to the following age groups:

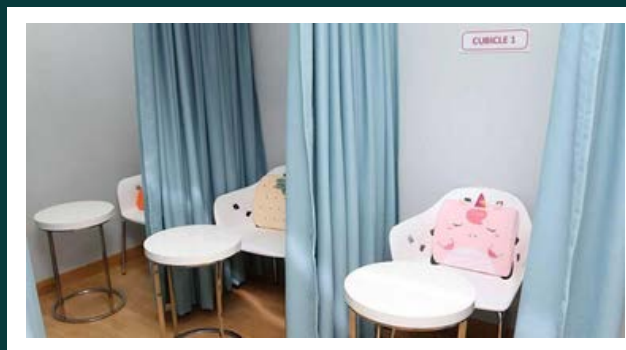
Permata Class	Age	Number of Children
Permata 1	3 months -1 year 3 months	12 children
Permata 2	1 year 3 months - 2 years	17 children
Permata 3	3 years	21 children
Permata 3	4 years	24 children



## ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### LACTATION ROOM

The lactation room facility, located at Hospital Canselor Tuanku Muhriz, provides a comfortable and private space for nursing mothers. This dedicated area is designed to ensure that all staff feel comfortable while balancing their work and nursing responsibilities.



This picture shows the lactation room facility at UKM

## WOMEN'S LIKELIHOOD OF GRADUATING

Graduation Rates by Gender and Education Level at UKM (2021–2023)

Year/ Education Level	2021			2022			2023		
	Male	Female	%F	Male	Female	%F	Male	Female	%F
Bachelors	1592	2699	62.90	1498	2915	66.05	1295	2745	67.95
Masters	459	784	63.07	478	832	63.51	959	1568	62.05
PhD	233	361	60.77	136	252	64.95	304	384	55.81





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

**SDG 6, or Sustainable Development Goal 6, is one of the seventeen global goals established by the United Nations as part of the 2030 Agenda for Sustainable Development. This goal focuses on ensuring availability and sustainable management of water and sanitation for all.**

**Access to clean water and sanitation is fundamental to human health, dignity, and well-being, yet billions of people worldwide lack these basic necessities. SDG 6 recognizes the importance of addressing this challenge to achieve broader sustainable development objectives.**

**The goal encompasses targets related to improving water quality, increasing water efficiency, protecting and restoring water-related ecosystems, expanding access to adequate sanitation facilities, and enhancing water governance and cooperation at all levels.**

**Achieving SDG 6 requires integrated approaches that consider the interconnectedness of water resources, ecosystems, and human societies. It involves investments in infrastructure, technology, education, and policy reforms to ensure equitable access to clean water and sanitation services while safeguarding water resources for future generations.**

**By working towards SDG 6, countries can contribute to improved health outcomes, poverty reduction, gender equality, environmental sustainability, and overall human development. This aligns with UKM Sustainability Policy 2030: UKM strives to enhance water conservation initiatives, improve wastewater treatment, and conduct water management studies to protect water resources.**

## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### SEWAGE TREATMENT PLANT (SWTP) @ UKM



Sewage Treatment Plant (SWTP) is a mechanism for a treatment process to separate solid sewage waste from wastewater, which is produced by residential, office or workplace premises. Most of the SWTP stations within UKM were built under the original Act and Law which aims to control and prevent the pollution of rivers and any waters in Malaysia. The following are the Acts and Laws that serve as guidelines for the construction of SWTP in UKM:

- **Environmental Quality Act 1974**
- **Environmental Quality (SEWAGE) REGULATIONS 2009**

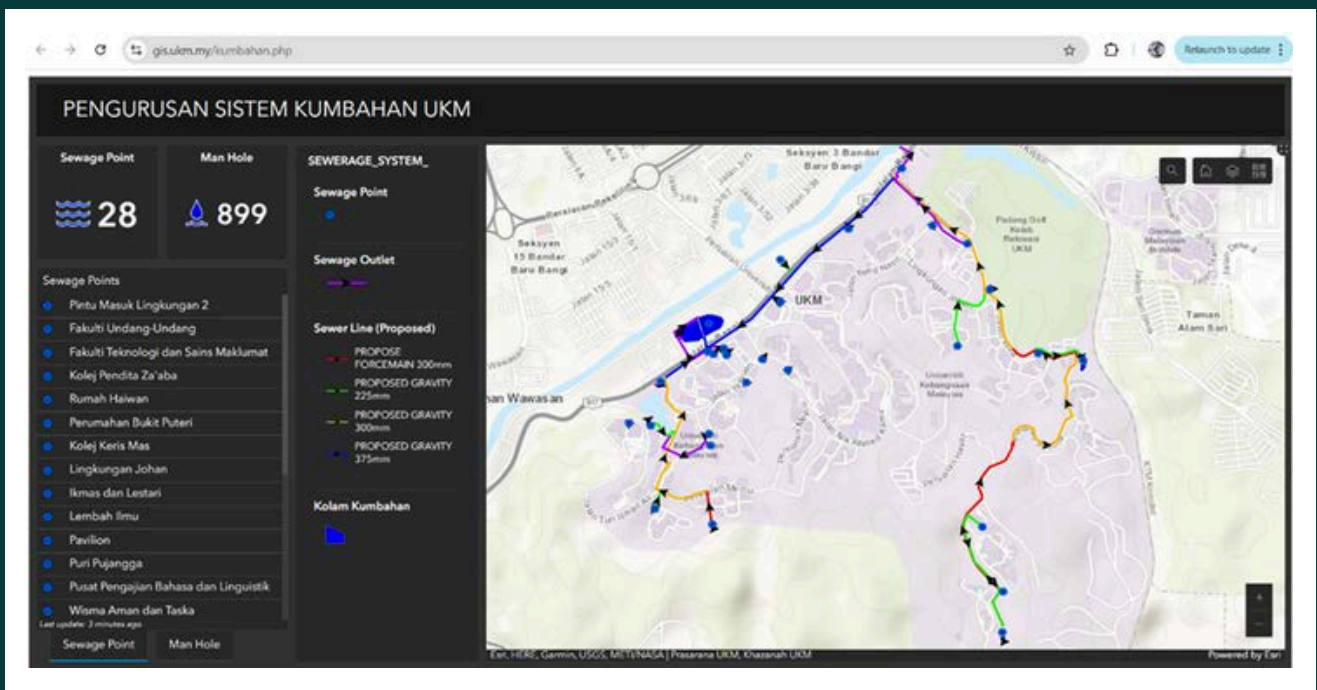
These treatment processes involve physical, chemical, and biological treatment methods to separate the waste materials from the sewage solid waste and then produce wastewater that is free from pollution and does not pose a threat to Malaysian waters and the life around it. There are 27 SWTP stations operated by a mechanical pump system within UKM. All these SWTP stations are regulated for maintenance and development by UKM Infrastructure Development Department (JPP). Regular maintenance with a frequency of once a month by a panel company appointed by UKM through an open tender method. Among the scope of maintenance work involved are as follows:

- Cleaning the entire SWTP Station area
- Control panel inspection and testing
- Inspection and testing of the complete pump system and accessories (submersible/aerator/air blower/scum skimmer)
- Filter inspection and cleaning (strainer/bar filter)
- Inspection of the entire pipeline of the SWTP station
- Inspection and cleaning of chambers (input/transit) or tanks (aeration/clarifier/load chamber), pump sump and Filter Dryer Bed



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

There are 27 + 1 (main) sewerage treatment plants at UKM Bangi (SWTP), all equipped with mechanical pump systems and maintained rigorously under JPP oversight. These SWTP stations are essential for effective campus-wide waste management and their maintenance is entrusted to contractors certified in Three-Phase Electrical Wiring (PW3), ensuring high standards of operational reliability and safety. This structured management aligns with UKM commitment to sustainable and efficient waste treatment practices.







## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### REGULAR MAINTANANCE

Regular maintenance with a frequency of once a month involves works such as 'housekeeping' of the SWTP station, inspections of the control panel, inspections of the pump system complete with accessories (submersible/aerator/air blower/'scum skimmer'), inspection-cleaning of filters (strainer/bar filter/gravel/river stone), inspection of SWTP station pipelines and inspection-cleaning of chambers or tanks (input chamber/ transit chamber/ treatment tank (aeration/ clarifier/ load chamber)/ pump sump/ Filter Dryer Bed is done by a panel contractor appointed by the UKM Tender Committee. The following are the types of SWTP stations that are operated by mechanical system pumps found in UKM:

- Pump Transit Station
- Oxidation Catchment Pond System
- Extended Aeration System
- Hi-Kleen Tank System
- Imhoff Tank Pump System
- Hybrid Septic Tank System

The data reading range covers 11 parameters, outlining the mandatory compliance conditions for each effluent sample. These parameters determine whether the effluent meets the quality standards of Standard A or Standard B, based on laboratory analysis results.

Parameter (1)	Unit (2)	Standad	
		A (3)	B (4)
(a) Suhu	°C	40	40
(b) Nilai pH	–	6.0-9.0	5.5-9.0
(c) BOD <sub>5</sub> pada 20°C	mg/L	20	50
(d) COD	mg/L	120	200
(e) Pepejal Terampai	mg/L	50	100
(f) Minyak dan Gris	mg/L	5.0	10.0
(g) Nitrogen Ammonia (badan air yang terkepung)	mg/L	5.0	5.0
(h) Nitrogen Ammonia (sungai)	mg/L	10.0	20.0
(i) Nitrogen Nitrat (sungai)	mg/L	20.0	50.0
(j) Nitrogen Nitrat (badan air yang terkepung)	mg/L	10.0	10.0
(k) Fosforus (badan air yang terkepung)	mg/L	5.0	10.0

**Nota:** Standard A terpakai kepada pembuangan ke dalam mana-mana perairan pedalaman dalam kawasan tadahan yang disenaraikan dalam Jadual Ketiga, manakala Standard B terpakai kepada mana-mana perairan pedalaman yang lain atau perairan Malaysia.

Effluent Standard That Need to Follow to Discharge to Water Bodies



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### PREVENTING WATER SYSTEM POLLUTION

#### WATER ANALYSIS AND RESEARCH CENTER (ALIR) UKM

The Water Analysis and Research Center (ALIR) at UKM provides high-quality water analysis services to support water research, particularly for UKM environmental monitoring and public health initiatives. ALIR specializes in water quality assessment and analysis, guided by the MS ISO 17025:2017 Accreditation Certificate as shown in the diagram below, which it has held since 2015.

This certification underscores ALIR's commitment to reliable and efficient water research. Through its state-of-the-art laboratory facilities, ALIR analyzes a comprehensive list of water quality parameters, supporting UKM dedication to sustainable water resource management and pollution control.



MS ISO 17025:2017 Accreditation Certificate for ALIR UKM

ALIR is organized into three core divisions, (i) training; (ii) research; and (iv) laboratory testing as shown in the diagram below, each staffed by experts in water chemistry, environmental health, and water treatment. ALIR is dedicated to comprehensive water quality analysis across the university, including the critical monitoring of Alur Ilmu. As UKM central hub for water quality assessment, ALIR ensures that water resources meet high standards, supporting UKM commitment to environmental health and sustainability.

LIST OF PARAMETERS ANALYZED BY UNIVERSITI KUALA LUMPUR			
WATER ANALYSIS			
No.	PARAMETER TITLE	METHOD	UNIT PRICE (RM)
1	pH	APHA, 2540-A	100.00
2	Temperature	APHA, 2550-A	100.00
3	Dissolved Oxygen	APHA, 2545-A	100.00
4	Electrical Conductivity	APHA, 2540-A	100.00
5	Total Hardness	APHA, 2540-A	100.00
6	Calcium Hardness	APHA, 2540-A	100.00
7	Magnesium Hardness	APHA, 2540-A	100.00
8	Total Solids	APHA, 2540-A	100.00
9	Total Suspended Solids	APHA, 2540-A	100.00
10	Total Dissolved Solids	APHA, 2540-A	100.00
11	Chlorine Residual	APHA, 2540-A	100.00
12	Free Chlorine Residual	APHA, 2540-A	100.00
13	Total Chlorine Residual	APHA, 2540-A	100.00
14	Free Chlorine Residual	APHA, 2540-A	100.00
15	Total Chlorine Residual	APHA, 2540-A	100.00
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90	Free Chlorine Residual	APHA, 2540-A	100.00
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98	Free Chlorine Residual	APHA, 2540-A	100.00
99	Total Chlorine Residual	APHA, 2540-A	100.00
100	Free Chlorine Residual	APHA, 2540-A	100.00

List of Parameters Analyzed by ALIR UKM



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



UKM water quality research and analysis emphasizes solutions to safeguard and improve water resources across UKM and Malaysia, recognizing the crucial role of clean water in public health, environmental sustainability and economic growth. One key focus is Alur Ilmu, also known as The Heart of UKM—a large stormwater channel that functions as a holding basin for water before it enters the Langat River. Alur Ilmu serves as an important buffer, allowing for the detection and management of contaminants before they impact the Langat River ecosystem.



Water Sampling and Water Quality Analysis by ALIR UKM



### KEY WATER CONTROL EQUIPMENT AND PRACTICES



#### POLYPROPYLENE DILUTION RECOVERY TRAPS (PDRT)

Polypropylene Dilution Recovery Traps are installed under each sink in the laboratories at UKM. These underbench installations are crucial because the process of dilution renders acids less harmful, making the laboratory environment safer.



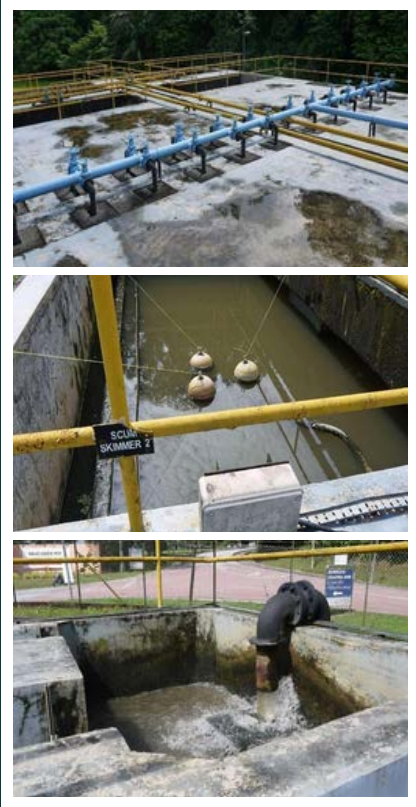
#### OIL AND GREASE TRAP AT CAFE

Grease traps are installed in every cafeteria at UKM to prevent water pollution. A grease trap separates different layers of waste with water which FOG (fats, oils and grease) rises to the top, while water remains at the bottom along with solid food debris.





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



### SEWAGE TREATMENT PLANT AT UKM

UKM implements a centralized wastewater treatment system. There are six different types of Sewage Treatment Plant (STP) stations in 27 different locations in UKM that are powered by mechanical pump systems: Pump Transit Station, Oxidation Catchment Pond System, Extended Aeration System, Hi-Kleen Tank System, Imhoff Tank Pump System, and Hybrid Septic Tank System. When the treatment process at UKM is complete, the STP Extended Aeration Station, Oxidation Pool, Hi Kleen Tank System, and Imhoff Tank Pump System produce effluent. This effluent is only released into the closest waters through drains and creeks once it satisfies the standards established by the Local Authorities (PBT). To determine if the quality of the effluent produced meets the acceptable conditions for sewage discharge of standards A and B, a data reading analysis test of the effluent sample of each STP station is conducted every six months at a laboratory accredited by the Malaysian Laboratory Accreditation Scheme (SAMM).

### ALUR ILMU

Alur Ilmu, also known as The Heart of UKM, is a large stormwater channel that serves to store water before it is released into the Langat River. This serves as a buffer zone to detect the continent before it reaches the Langat River. Numerous studies are conducted on Alur Ilmu, focusing on aspects such as water quality index, stormwater management, soil erosion and sediment issues, and pollutant load concentrations. This demonstrates UKM commitment to ensuring that Alur Ilmu is well-maintained, contributing to the sustainability of the UKM campus.





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### FREE DRINKING WATER

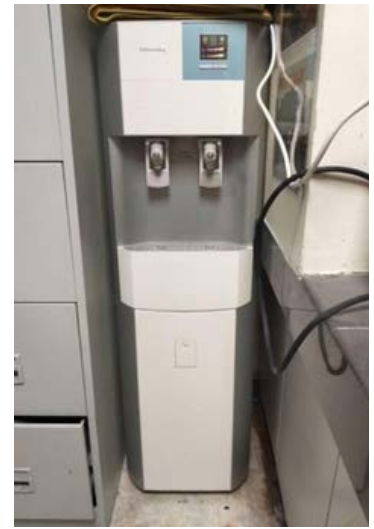
As part of its initiatives to meet SDG 6, which emphasizes the provision of affordable, equitable and sustainable water and sanitation, UKM has installed water purifiers across the entire campus.



Institute of Climate Change (IPI)



Faculty of Engineering and Built and Environment (FKAB)



Faculty of Science and Technology (FST)



Information Technology Center (PTM)



Coway water dispenser and a kettle in the Faculty of Information Science & Technology (FTSM)



Faculty of Social Sciences & Humanities.





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### WATER EFFICIENT APPLIANCE AT UKM



Dual flush button in toilets

Water saving fixtures

Water Restrictor Tap

### WATER-CONSCIOUS PLANTING

#### DROUGHT-TOLERANT PLANTING



Cycad trees have been planted along the landscape of UKM. Cycads naturally have characteristics that help conserve water.



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



Ixora, Furcraea and Ruffle Fan Palm plants are among the species planted to beautify the UKM landscape, requiring watering only once a week

## VERTICAL LANDSCAPING DESIGN



Aloe vera plants are arranged vertically in a landscape design at the STEM, Media and Language Research Laboratory. Vertical planting systems can reduce water consumption





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

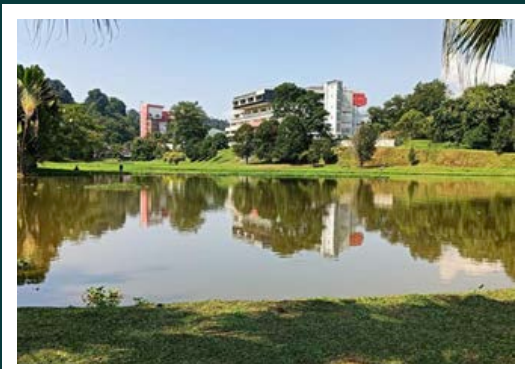
### LOW-WATER-REQUIREMENT PLANTS

Several other plant species that require minimal watering have been selected to beautify the UKM landscape. These include:

- **Ixora:** A hardy plant that is watered only once a week.
- **Furcraea:** Known for its robustness and minimal water needs.
- **Ruffle Fan Palm:** Another species that contributes to the campus's greenery while requiring limited water.

### WATER REUSE

UKM's water reuse initiative is the repurposing of water collected from the Ghazali Lake, Alur Ilmu stream, the Faculty of Science and Technology (FST) and the Faculty of Engineering and Built Environment (FKAB) Lake. This water is primarily used for irrigating the campus landscape, thereby reducing the need for additional freshwater resources.



#### FACULTY OF ENGINEERING AND BUILT ENVIRONMENT (FKAB) LAKE

Water from the FKAB Lake is pumped into tanks twice a week used for landscaping activities.



Workers are transferring water from the lake at the Faculty of Engineering and Built Environment into a tank for landscape irrigation





## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

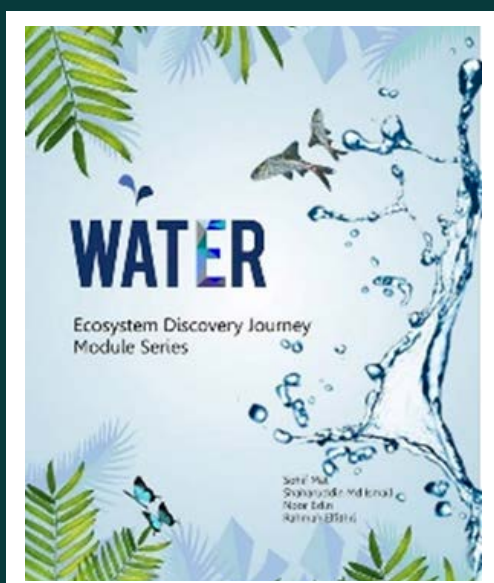


UKM students under CESMED utilized reused water for fertigation, hydroponic and oyster mushroom irrigation systems.

UKM's policy and practices on water reuse exemplify the university's strong commitment to SDG 6 and the broader goal of sustainable water management. By implementing these measures, UKM not only reduces its ecological footprint but also sets a precedent for other institutions to follow in promoting water sustainability.

## WATER IN THE COMMUNITY

Universiti Kebangsaan Malaysia (UKM) actively provides educational opportunities for local communities to learn about good water management practices through various outreach programs, workshops, and collaborative initiatives



### CITRA PROGRAM AT UKM

The program will include interactive group discussions focused on watershed management, where participants will analyze the challenges and strategies associated with maintaining healthy river systems



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



### LARIAN DENAI 2023

Larian Denai 2023 is a vibrant running event organized by UKM aimed at promoting physical fitness, community engagement, and environmental awareness. Aligned with Sustainable Development Goal 6, which focuses on clean water and sanitation, this event provides valuable educational opportunities for local communities to learn about effective water management practices. Participants, whether seasoned runners or casual walkers, not only engage in a healthier lifestyle but also contribute to UKM commitment to sustainable practices and community involvement.

### LANAM CAKNA ALAM PROGRAM

In collaboration with the Khadijah International Waqf Foundation (KIWF), the Environmental Management Center (EMC) organized a free Laman Cakna Alam Program, focusing on environmental and climate change education for five primary schools in Hulu Langat. Teachers received training from UKM experts on climate related issues, enabling them to further educate their students







## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### SAHABAT SUNGAI HULU LANGAT

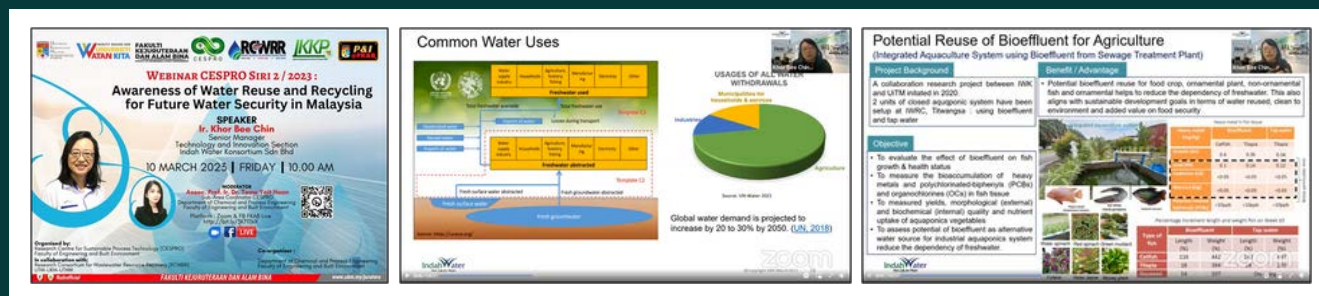
On November 11, 2023, the Sahabat Sungai Hulu Langat was launched at the Institut Kemahiran Tinggi Belia Negara Dusun Tua, marking the conclusion of the Laman Cakna Alam evaluation program.

Additionally, four students from each school were honored with the title of Jaguh Cakna Alam, receiving monetary rewards deposited into their Skim Simpanan Pendidikan Nasional (SSPN) accounts.



### CESPRO WEBINAR

CESPRO Webinar Series 2/2023 focuses on "Awareness of Water Reuse and Recycling for Future Water Security in Malaysia." organized by Faculty of Engineering and the Built Environment (FKAB) UKM in collaboration with the Research Consortium for Wastewater Resource Recovery (RCWRR) University of Technology Malaysia (UTM)-UKM-Universiti Tun Hussein Onn Malaysia (UTHM). The webinar discusses the reuse of bioeffluent from sewage treatment for agriculture.







## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### UKM COLLABORATE TO BUILDS TUBE WELLS



UKM is making significant strides in promoting conscious water usage in the wider community through its collaborative initiative with Takaful Ikhlas General Berhad to establish tube wells at Politeknik Kota Bharu, a vital part of its off-campus water conservation support efforts. The program was officially launched on 14 September 2023



### PROGRAM GREEN CAMP FOR YOUTH @ TASIK CHINI UNESCO BIOSPHERE RESERVE

This program engaged 40 students from four primary schools, providing them with hands-on opportunities to participate in environmental preservation activities. Sponsored by the UNESCO National Commission of Malaysia (SKUM) and the East Coast Economic Region Development Council (ECERDC), the camp focused on raising environmental awareness, teaching participants about the importance of maintaining clean waterways through practical activities like river clean-up initiatives



## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### HARI DENAI ALAM



The Hari Denai Alam program, themed “Melestarikan Alam,” was officially launched by the Minister of Natural Resources, Environment and Climate Change, YB. Tuan Nik Nazmi Nik Ahmad, at Denai Alur Ilmu, Universiti Kebangsaan Malaysia (UKM). This initiative serves as a vital part of UKM's off-campus water conservation support efforts, focusing on activities such as tree planting of various species and cleaning the Denai Alur Ilmu area, which involved over 100 volunteers from the local community.

## WATER AWARENESS CAMPAIGNS

### APA YANG BOLEH ANDA LAKUKAN ?

#### 1. MENUTUP PAIP

Jimatkan air dengan mengelakkan air paip dari mengalir secara berterusan. Gunakan baldi atau besen apabila mencuci pinggan, mangkuk, makanan dan kereta. Tutuplah paip air ketika mencuci gigi atau bercukur. Air paip yang dibarikan menitik boleh membazirkan 12,000 liter air setahun.

#### 2. SISTEM PENGSEPAKAL YANG JIMAT

Tangki tandas yang menggunakan sistem pam-sepauh atau sipadu yang lebih kecil boleh menjimatkan 35,000 liter air setahun. (Bayan internet: toilet+half flush) ataupun cara mudah dengan meletakkan bekas plastik ke dalam tangki tandas (diletakkan pasir @ batu kecil dan dipenuhi dengan air). Bekas itu akan mengurangkan air untuk setiap pam tanpa mengganggu keupayaan tandas tersebut.

#### 3. PERIKSA KEBOCORAN

Pastikan sistem salutan paip dan tandas yang digunakan tidak mengalami kebocoran. Titisian beberapa titik pewarna ke dalam tangki tandas dan periksa mangkuk tandas samada pewarna tersebut kelihatan, jika ada ini bermakna terdapat kebocoran. Bolehlah segera kerana kebocoran yang kecil boleh membazirkan beribu liter air sebulan.

#### 4. KURANGKAN MASA MANDIAN

Dijangkaikan 17,000 liter air di setiap rumah dapat dijimatkan jika mandian dihadkan kepada 5 minit. Mandi menggunakan gayung adalah lebih jimat air daripada menggunakan shower.

#### 5. PERIKSA MESIN BASUH

Lebih kurang 23,000 liter air setiap tahun dapat dijimatkan jika kita hanya membasuh apabila mesin penuh.

#### 6. KURANGKAN KEKERAHAN SEMBUK PENGHANGIN

Cucilah kenderaan sekali dalam seminggu untuk mengelakkan pembaziran air.

#### 7. MENGGUNAKAN AIR HILJAN

Air hujan boleh digunakan terutama untuk kegunaan sampingan seperti menyiram pokok, membasuh kereta dan mencuci lantai. Malaysia menerima 3000 mm hujan setiap tahun, secara purata sebuah bangunan boleh menjimatkan 40% bersamaan 180,000 liter kegunaan air setiap tahun dengan air hujan yang dikumpulkan ini.



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 Website: <http://www.ukm.edu.my>

### Kempen Penjimatan Air UKM

Jimatkan Penggunaan Air

#### PENJIMATAN AIR

Air bertindak sebagai salah satu keperluan utama untuk pertumbuhan dan pembangunan sejagat. Peningkatan populasi manusia dan peningkatan menyumbang kepada kadar penggunaan air yang tinggi. Faktor ini meningkatkan permintaan air. Semakin kita melangkah ke gaya hidup yang lebih moden, kita perlu bertindak untuk menjimatkan penggunaan air bagi menjamin bekalannya di masa hadapan.

#### TAHUKAN ANDA?

Seorang manusia hanya memerlukan 60 liter (lebih kurang 30 botol air mineral biasa) air sehari untuk keperluan asas. Jumlah ini dibahagi kepada air minuman (5 liter), kebersihan peribadi (20 liter), mandi (15 liter) dan penyediaan makanan (15 liter). Namun demikian, penggunaan air boleh mencapai sehingga 800 liter per individu kalau bersamaan dengan 333 botol air mineral biasa besar jika tidak menggunakan air dengan cermat.

#### INGATLAH

Sebagai rakyat yang tinggal di kawasan beriklim monsun tropika, kita sepatutnya tidak perlu menderita kerana kekurangan air. Sudah sampai masanya kita sebagai pengguna memikul tanggungjawab mengawal sumber air dan melakukan penjimatan penggunaan air. Kita juga harus mengubah sikap dan cara hidup untuk memastikan sumber air yang mencukupi bagi generasi masa kini dan masa hadapan.

Dalam usaha untuk membentuk Kampus UKM yang lestari, semua warga UKM dijemput untuk mengambil bahagian menjalankan kempen ini. Mari lah sama-sama kita bersetia tenaga untuk menjadikan kampus UKM yang lestari dan mengamalkan pengurusan sumber air yang cekap dan berkesan.

### Kempen Penjimatan Air & Elektrik







## ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### RAINWATER HARVESTING



Rainwater Harvesting at UKM Mosque



Rainwater Harvesting at Research Complex

Promoting conscious water usage at UKM is a vital initiative that reflects the university's dedication to sustainability and the responsible management of water resources. Through comprehensive campaigns that raise awareness, educate the community, and encourage the adoption of water-saving practices, UKM empowers students, faculty and staff to actively participate in conservation efforts. The integration of efficient water fixtures, regular monitoring, and the innovative implementation of rainwater harvesting systems further demonstrate UKM commitment to reducing its water footprint and enhancing resilience against water scarcity challenges.





## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

**SDG 2, or Sustainable Development Goal 2, aims to achieve Zero Hunger. It's one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development. Zero Hunger seeks to end hunger, achieve food security and improved nutrition, and promote sustainable agriculture worldwide.**

**The goal recognizes that despite progress in reducing global hunger over the years, millions of people still suffer from chronic hunger and malnutrition. Achieving Zero Hunger is not just about producing more food but also about ensuring access to nutritious and sufficient food for all, promoting sustainable agriculture practices, addressing food waste, and supporting small-scale farmers, particularly in developing countries.**

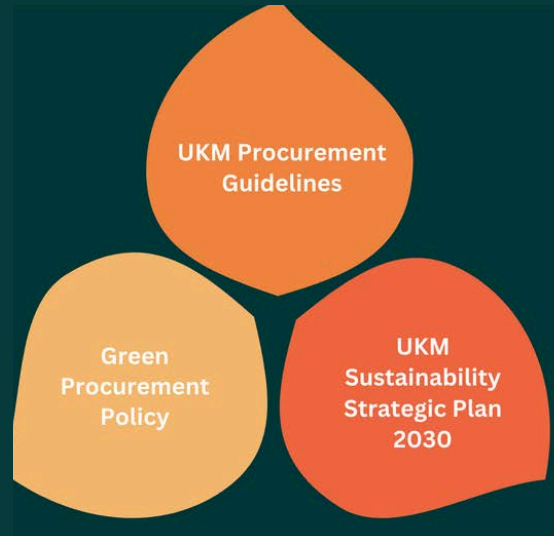
**UKM ensures food security for its staff and students by executing intervention initiatives aimed at diminishing hunger levels among its staff and students, fostering sustainable agricultural practices within its campus and advocating healthy dietary habits. This aligns with UKM Sustainability Policy 2030: UKM ensures food security for its staff and students through the implementation of intervention programs to reduce hunger rates among its staff and students, promote sustainable agriculture on campus, and encourage healthy eating practices.**



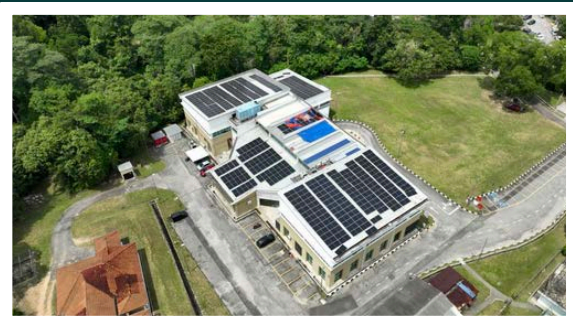
## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

### ENERGY-EFFICIENT RENOVATION AND BUILDING POLICY

UKM prescribes energy-efficient renovation and building, mandating the adoption of sustainable construction practices that prioritize energy conservation and minimize environmental impact. Through the integration of energy-efficient technologies, such as solar panels, LED lighting, and sustainable materials, UKM ensures that all infrastructure projects contribute to reduced carbon emissions and long-term cost savings. These policies reflect UKM's commitment to environmental stewardship, aligning with national and global sustainability goals while fostering an eco-friendly, energy-conscious campus.



### UKM SOLAR POWER INSTALLATION



Solar Panels at Kesatria Building, UKM



Solar Panels at the GSB Building, UKM



Solar Panels at Central Store Building, UKM



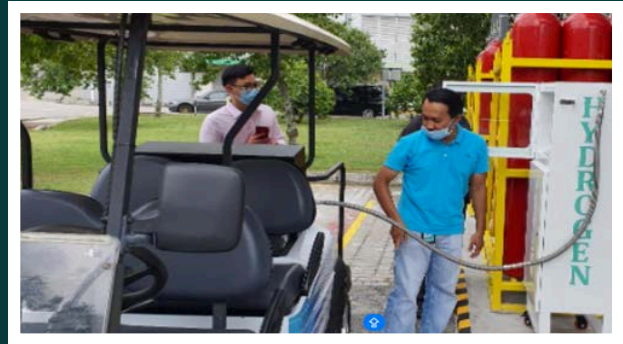
Solar Panels at Infrastructure Building, UKM



## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

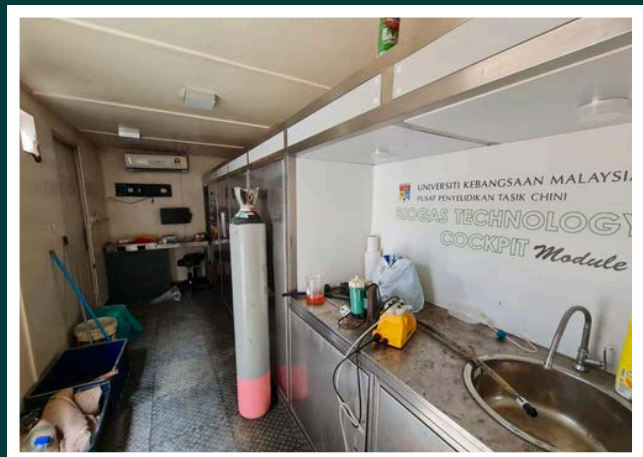
### BIODIESEL PRODUCTION

Demonstrating its commitment to sustainable energy and higher building efficiency, UKM has integrated biodiesel production into its renewable energy strategy. Additionally, SELFUEL UKM is pioneering hydrogen energy production on campus, providing a clean alternative fuel source. The hydrogen energy production process, as developed by SELFUEL UKM, highlights UKM's advancements in renewable and sustainable energy technologies, further supporting a greener, more efficient campus.



### CLEAN BIOMASS PRODUCTION

UKM has introduced an innovative clean biomass production system at the Chini Lake Research Center (PPTC), one of its living labs, to promote green technology and environmental conservation. The Clean Biomass Technology Cockpit generates 0.75 kg of methane ( $\text{CH}_4$ ) per kilogram of palm oil mill effluent (POME) processed, yielding an energy output of 10 kWh. This energy capacity is sufficient to power an LED lamp for 1,050 hours, or 43 days of continuous use demonstrating UKM commitment to renewable energy, pollution reduction, and enhancing energy efficiency across its facilities.







## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

### SMART BUILDINGS

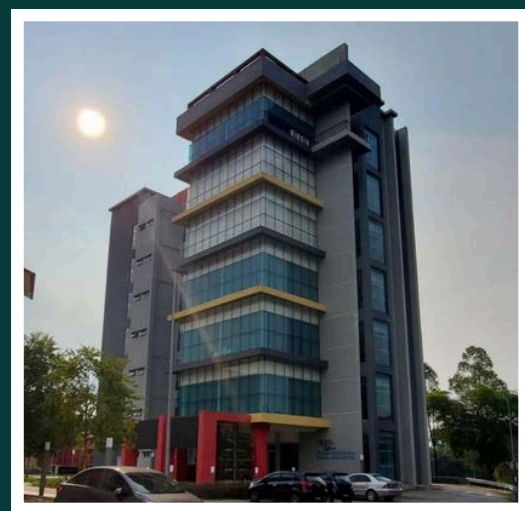
UKM Bangi has made significant strides in enhancing energy efficiency by implementing smart building technologies across campus. Buildings qualify as "smart" when they incorporate at least five essential features: automation, safety (including physical security, sensors, and CCTV), energy efficiency, water management (sanitation), and optimised lighting (low-power illumination). These features support sustainable energy use and improve the operational efficiency of UKM's infrastructure.



Akademia Siber Teknopolis (AST), UKM



Graduate Business School, UKM



Language, Media and STEM Research Laboratory, UKM



PERMATAePintar National Gifted Centre, UKM

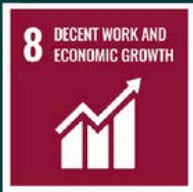


## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

SDG 8 refers to Sustainable Development Goal 8, one of the seventeen global goals established by the United Nations as part of the 2030 Agenda for Sustainable Development. SDG 8 focuses on "Decent Work and Economic Growth," aiming to promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all. Access to decent work and economic opportunities is essential for reducing poverty, promoting social inclusion, and achieving sustainable development. However, many people worldwide still struggle to secure stable employment, receive fair wages, and access essential social protections.

SDG 8 outlines various targets to address these challenges, including promoting inclusive economic growth, fostering entrepreneurship and innovation, ensuring equal access to employment and decent work for all, and eliminating forced labour, child labour, and modern slavery. It also emphasises the need to improve labour market conditions, enhance vocational training, and promote sustainable tourism. Achieving SDG 8 requires concerted efforts from governments, employers, workers' organisations, and other stakeholders. It involves implementing policies that support job creation, stimulate entrepreneurship, and protect labour rights. Additionally, investing in education, skills development, and social protection systems is crucial for ensuring that everyone can participate in and benefit from economic growth.

By advancing decent work and economic growth, societies can reduce inequality, enhance resilience to economic shocks, and promote inclusive and sustainable development pathways. SDG 8 plays a crucial role in building a more prosperous and equitable world for present and future generations. This aligns with UKM Sustainability Policy 2030.



## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### EMPLOYMENT PRACTICE LIVING WAGE

UKM ensures fair and competitive remuneration aligned with Malaysia's Public Service Remuneration Scheme, exceeding the minimum wage and poverty line income of RM2,208 set by the Economic Planning Unit (EPU), supporting employees' financial security and quality of life.

### EMPLOYMENT PRACTICE UNIONS

#### UKM ACADEMIC STAFF ASSOCIATION (PKAUKM)

The UKM Academic Staff Association, also known as PKAUKM, serves as the best platform for academic members to collectively advance the development of higher education in the country.

In line with its motto, "Caring for Members' Welfare," PKAUKM symbolises the aspirations of academics in seeking protection should their fundamental rights as educators and lecturers be compromised. PKAUKM took its first steps in the early 1980s, ensuring the welfare of academia. At that time, the main focus was on educating the nation's youth to face the new era, both in terms of competence and national identity, in the workforce.

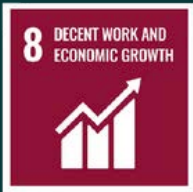


#### UKM ACADEMIC STAFF ASSOCIATION (PKAUKM)

The Administrative and Professional Officers Association, or PERTADI for short, was officially inaugurated by Y.B. Tan Sri Dr. Anuwar bin Mahmud, Vice-Chancellor of UKM, on August 15, 1977. The ceremony was held in the Senate Room at UKM, and was also attended by senior UKM officers, Deputy Vice-Chancellors, the Registrar, the Treasurer, and the Chief Librarian.







## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL



This picture shows a PERTADI representative alongside representatives from other public universities at the International Volunteerism Corporate Responsibility II event in Songkhla, Thailand.

### ADMINISTRATIVE AND OPERATIONS ASSISTANTS ASSOCIATION (PTPO)

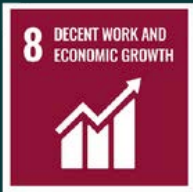
The Administrative and Operations Assistants Association (PTPO) was established following a meeting and discussion between Mr. Muhammad Yazid bin Othman, Ms. Noor Darlina Kasumawati Mohd Yusof, and Mr. Abdul Rahman Mohd Nordin, President of KESUKMA, on September 29, 2017. PTPO is an active union, consistently organising activities to enhance the skills of its members.



### UKM SECRETARIES ASSOCIATION (PSUKM)

The UKM Administrative Secretarial Assistants Association, now known as PSUKM, was established in 2001. It began with an Ad-hoc Committee in April, which held meetings and prepared a proposal for approval by the university. Finally, on October 17, 2001, PSUKM was successfully established with the approval of MPU No. 39/2001. It has continued to thrive and now has nearly 200 members, including Associate Members. The UKM Administrative Secretarial Assistants Association has since been rebranded as the Universiti Kebangsaan Malaysia Secretaries Association (PSUKM).





## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### UKM GENERAL STAFF UNION (KESUKMA)

The Universiti Kebangsaan Malaysia General Staff Union, or KESUKMA for short, was registered on April 19, 1977, under the Trade Unions Act 1959 with registration number 519 in Selangor. Its history began as the Universiti Kebangsaan Malaysia General Staff Association [PERKAM], which was established in 1972. It has since evolved from an association into a trade union representing nearly 2,000 support staff members from Groups I and II at Universiti Kebangsaan Malaysia.

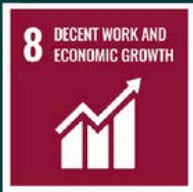


### UKM SECURITY OFFICERS ASSOCIATION (PAKAT)

PAKAT is the association for all security officers at UKM, with a primary focus on the welfare of its members. The association plays a vital role in assisting its members by safeguarding their well-being and acting as a liaison between employees and employers.



PAKAT representatives visited UKM Bangi security officer Mr. Mohd Hafizi Ahmad Termizi, who sustained a broken leg in a motorcycle accident.



## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### UKM ASSISTANT ADMINISTRATIVE OFFICERS ASSOCIATION (PERPENTA)

The Association aims to enhance professionalism, amplify members' voices, foster strong relationships among members, support career development and advocate for the overall welfare of its members.

The Association represents its members in work-related matters and organizes programs, training, and courses to enhance skills in governance, office management and emerging technologies. It also offers counseling and guidance on career and personal development, assisting members in overcoming workplace challenges. Furthermore, the Association encourages members to consistently uphold high work ethics and professionalism across all areas of their roles.

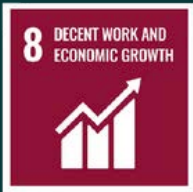


### UKM WOMEN'S ASSOCIATION (SUKMANITA)

The Women's Association of the University (UKM), or better known as SUKMANITA, was officially registered on March 23, 1982. The members of SUKMANITA consist of female UKM staff and the wives of UKM staff. This voluntary association is actively involved in charitable, religious, health, educational, and community activities.







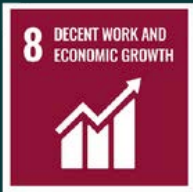
## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### UKM RETIREES ASSOCIATION (PPUKM)

The establishment of the UKM Retirees Association (PPUKM) was officially registered by the Registrar of Societies Malaysia, effective from September 22, 2010. It is an association that reunites all former UKM staff who have retired, allowing them to maintain and foster close ties with UKM. Through this association, various activities can be planned and carried out for the benefit and welfare of UKM retirees.



The Healthy Senior Chair Exercise Activity and the 10,000 Steps PAWE@UKM event were organized by the Senior Citizens Activity Centre (PAWE) UKM in collaboration with the UKM Retirees Association (PPUKM).



## PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

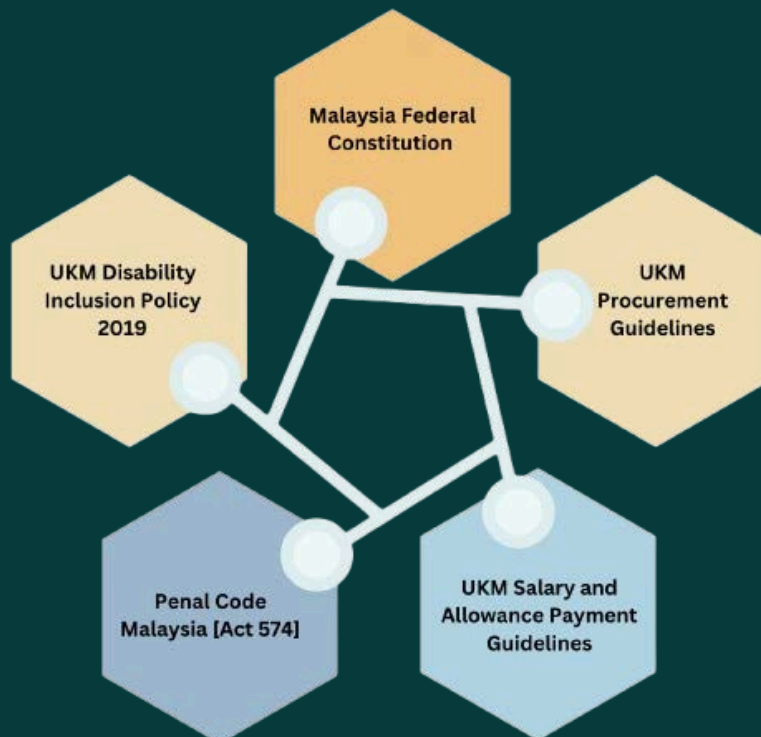
### EMPLOYMENT PRACTICE LABOUR RIGHTS

The Joint Departmental Council (MBJ), established by the Malaysian Public Service Department, is a pivotal platform for facilitating effective two-way communication between employees and the administration. This council provides a structured forum where employees can voice their concerns, share their opinions, and contribute ideas to improve the organisation.

Through MBJ, UKM demonstrates that every union has the freedom to share their opinions, working collaboratively for the betterment of the university. MBJ plays a key role in ensuring that employees' views are heard and considered, fostering a collaborative environment for decision-making.



### EMPLOYMENT PRACTICE POLICIES/ GUIDELINES





## **BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION**

**SDG 9 stands for Sustainable Development Goal 9, one of the seventeen global goals established by the United Nations as part of the 2030 Agenda for Sustainable Development. SDG 9 focuses on "Industry, Innovation, and Infrastructure," aiming to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation. Infrastructure, industry, and innovation play pivotal roles in driving economic growth, fostering innovation, and creating sustainable livelihoods. However, many regions around the world still lack adequate infrastructure, hindering their development prospects. Moreover, industrialization, if not managed sustainably, can have adverse environmental and social impacts.**

**SDG 9 outlines various targets to address these challenges, including developing quality, reliable, sustainable, and resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation. This involves investing in transportation, energy, water, and information and communication technology (ICT) infrastructure, as well as promoting sustainable industrial practices and enhancing research and development (R&D) capacities.**

**Achieving SDG 9 requires collaboration among governments, the private sector, civil society, and other stakeholders. It involves implementing policies that support infrastructure development, promoting technology transfer and capacity-building initiatives, and creating conducive environments for innovation and entrepreneurship. By advancing sustainable industry, innovation, and infrastructure, societies can foster economic growth, create employment opportunities, and promote sustainable development for all. This aligns with UKM Sustainability Policy 2030: UKM is committed to advancing the university through sustainable infrastructure development, cutting-edge research innovation, and partnerships with industry leaders.**



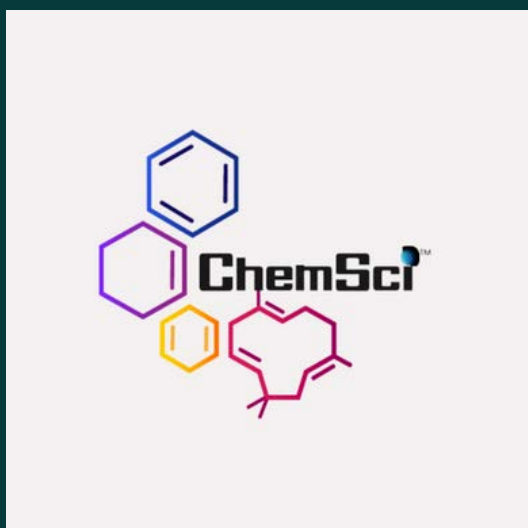


## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION

### UKM START-UP COMPANY

#### JOM MAK CIK SDN. BHD.

Jom Makcik Sdn. Bhd. is a company that provides lady drivers and companion services, ensuring clients have trustworthy, professional support, focusing on safety, comfort, and personalized care for their transportation needs. The company is committed to delivering a reliable and secure experience, making transportation and daily activities easier and more comfortable for their clients.



#### CHEMSCI SDN. BHD.

ChemSci Sdn. Bhd. is a company that focuses on organizing and conducting science camps for students. The company is dedicated to fostering a love for science through interactive and hands-on learning experiences. These camps are designed to engage students in various scientific activities, experiments, and projects, helping them to explore and understand scientific concepts in a fun and educational environment. ChemSci Sdn Bhd aims to inspire the next generation of scientists by providing a platform where young minds can discover the wonders of science outside the traditional classroom setting.

#### DERIALAH SDN. BHD.

Derialah Sdn. Bhd. is a company that specializes in the development and distribution of air quality sensors. AiRSYNC - An autonomous 'Early Warning System' for Air Pollution and Noise monitoring. The company is dedicated to providing innovative solutions for monitoring and improving air quality. Their products are designed to accurately detect and measure pollutants in the air, helping businesses and individuals maintain a healthier environment. Derialah Sdn. Bhd aims to contribute to environmental sustainability through advanced technology in air quality monitoring.





## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION



### GELIGA HERITAGE SDN BHD

Geliga Heritage Sdn. Bhd. is a company specializing in the extraction and production of hydrolyzed collagen from sea cucumbers. The company is dedicated to utilizing traditional knowledge combined with modern techniques to produce high-quality hydrolyzed collagen, which is valued for its health and cosmetic benefits and aims to contribute to the wellness industry by providing natural, marine-sourced collagen products while promoting sustainable harvesting practices.

### PERTANIAN BERSIH SDN. BHD.

Pertanian Bersih Sdn. Bhd. is a company specializing in sustainable and eco-friendly agricultural practices. The company is committed to promoting organic farming and providing high-quality, pesticide-free produce. By utilizing environmentally friendly techniques and innovative farming methods, Pertanian Bersih Sdn Bhd aims to contribute to healthier food production and a more sustainable agriculture industry.



### IDNA IDEAS SDN BHD

IDNA Ideas Sdn. Bhd. is a company focused on educational technology, specializing in developing foundational programming modules for robotics and drones. This module is designed to make learning programming accessible and engaging, especially in the context of robotics and drone technology. The company aims to inspire the next generation of tech innovators by equipping them with essential programming skills through interactive and practical learning experiences.

## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION

### KL ORTHOSPORT SDN. BHD.

KL Orthosports Sdn Bhd is a biotech company developed as a UKM Startup under The Center for Innovation and Technology Transfer, UKM (INOVASI@UKM). KL Orthosport Sdn. Bhd. is a medical company specializing in advanced orthopedic solutions, particularly in the field of sports medicine. KL Orthosports is a leader in orthopedic innovation, dedicated to delivering evidence-based treatments for joint preservation and reconstruction. Our expert team, comprised of skilled surgeons and researchers, collaborates to develop cutting-edge techniques and biotech solutions, ensuring that our patients receive the gold standard of care.



### HIKMAH VISION SDN. BHD.

Hikmah Vision Sdn. Bhd. is a company specializing in health and wellness solutions, with a focus on mental health. The company has developed the Initial Mental Health Screening Instrument E-Psikoterapi UKM, a tool designed to assist in the early detection and assessment of mental health conditions. This instrument aims to provide accessible and reliable mental health screening, allowing for timely interventions and appropriate therapeutic support. Hikmah Vision Sdn Bhd is committed to advancing mental health care through innovative screening tools and promoting overall well-being.

### EDUUNITY SDN. BHD.

EduUnity Sdn. Bhd. is an educational technology company that also focuses on supporting academic research and writing. One of its specialized services is S.E.N.I Research Paper Writing, a program designed to assist students and professionals in writing high-quality research papers. This service provides guidance in structuring, drafting, and editing research papers, with a focus on enhancing academic skills and ensuring adherence to scholarly standards. EduUnity Sdn Bhd is committed to fostering academic excellence by offering resources and support for effective research writing, enabling users to present their findings with clarity and professionalism.







## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION



### NUTERRA SDN. BHD.

Nuterra Sdn. Bhd. is a food manufacturing company specializing in producing healthy and innovative food products. One of their key offerings includes Dr. Raz Burger and Dr. Raz Nugget, which are nutritious, high-quality food items designed for health-conscious consumers. The company is committed to promoting healthier eating habits through its line of nutritious and delicious food products, catering to those who seek convenience without compromising on health.

## UKM SPIN-OFF COMPANY

### MYNFT SDN. BHD.

MyNFT Sdn. Bhd. is a company that develops advanced systems for oil and waste spill detection. The company focuses on creating innovative solutions to monitor and identify environmental hazards, particularly in maritime settings and is committed to leveraging technology to protect the environment and support sustainable practices in industries that operate in sensitive ecological areas.



### MYB INNOVATION SDN. BHD.

MyB Innovation Sdn. Bhd. is a company dedicated to the design and manufacturing of advanced prosthetic solutions. The company aims to enhance the mobility and quality of life for individuals with lower limb amputations by offering innovative and reliable prosthetic products that are tailored to meet the specific needs of each user.



## **BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION**

### **GEOHERMAL RESOURCES SDN. BHD.**

Geothermal Resources Sdn. Bhd. is a one stop center for geothermal solutions and focused on prefeasibility, exploring, feasibility studies and mapping geothermal energy sources in Malaysia. Company is committed to advancing the understanding and utilization of geothermal energy in the region, contributing to renewable energy solutions and environmental sustainability. GRSB has a fully equipped geothermal lab in UKM (Universiti Kebangsaan Malaysia) Bangi and collaboration with various academic and industry experts.



### **CASEMIX SOLUTIONS SDN. BHD.**

CASEMIX SOLUTIONS is a start-up private limited company incorporated under UKM in 2011. In 2016 the ownership of the company was transferred to UKM researchers. We are the company that designs, sells, trains, and distributes the CASEMIX system to the global market. We provide dynamic software for implementing the CASEMIX system, which can be customised according to the country's needs at a minimal cost. We are the only CASEMIX company in the world that can train and provide the total solution for CASEMIX implementation.

### **MY CRO SDN. BHD.**

MY C.R.O Sdn Bhd is a start-up company under the UKM. The nature of business registered under the SSM is Biotechnology, Pharmaceutical and Clinical Research. Currently MYCRO is partnering with the UMBI to provide Covid-19 testing to the private sector.





## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION



### CELL TISSUE TECHNOLOGY SDN. BHD.

Malaysian advanced medical technology-based company, a spin-off of the National University of Malaysia (UKM), one of the country's leading universities and research institutes. Ever since its establishment in the year of 2010, Cell Tissue Group has become the prime mover and renowned leader in both Tissue Engineering and Regenerative Medicine fields. As Malaysia's first Tissue Engineering firm, Cell Tissue Group operates within a certified cGMP laboratory, ensuring the highest standards of medical research and product development, particularly in Tissue Engineering and Regenerative Medicine.

### SEROTECH SDN. BHD.

Serotech Sdn. Bhd. is a company specializing in agricultural innovations, particularly focused on urban farming. The company's flagship product, Cilibangi, is a brand of chili plants that are developed to be hardy and adaptable to urban farming conditions.



### NOMATECH SDN. BHD.

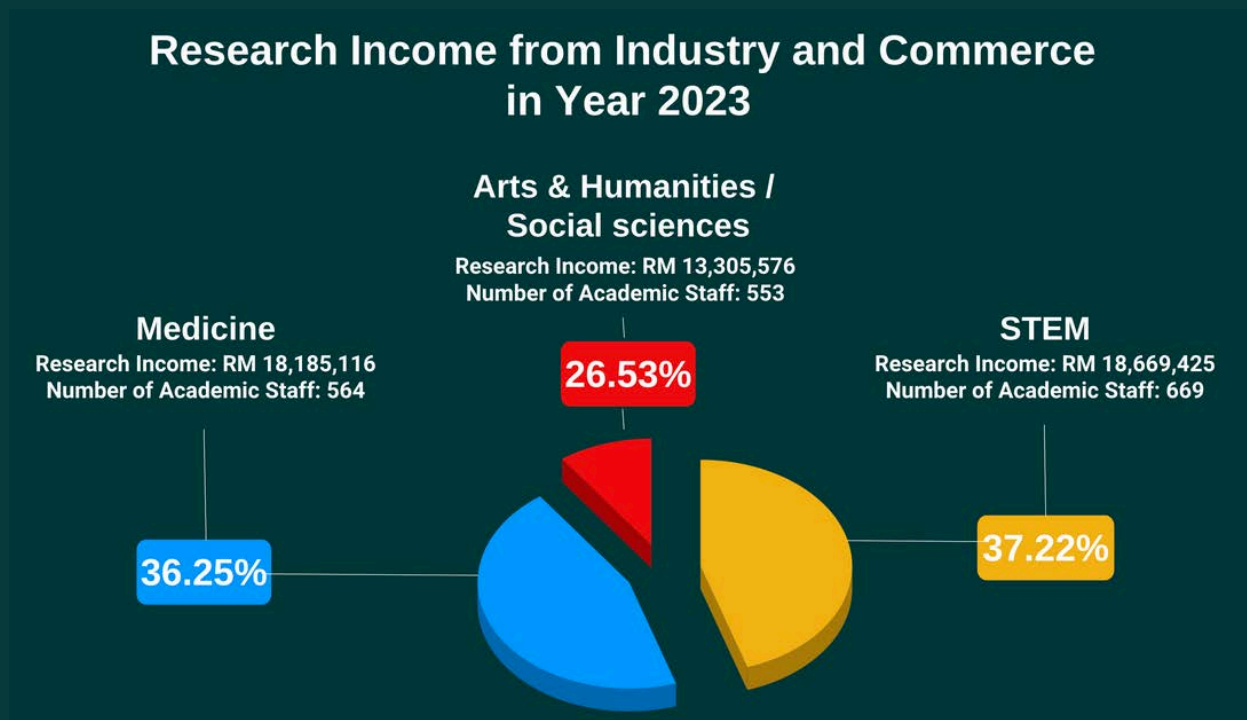
Nomatech Sdn. Bhd. is an agriculture R&D and innovation based company which commercializes agricultural research and its end products, currently being high quality and high yielding Red and White Rices. It provides product development and related technical services, seed banking as well as running a pilot-scale nursery for seed production and development. Nomatech aims to be a world-class agriculture company in the near future.





## BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION AND FOSTER INNOVATION

### RESEARCH INCOME FROM INDUSTRY AND COMMERCE





## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

SDG 10, or Sustainable Development Goal 10, focuses on reducing inequalities within and among countries. It is one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development.

The goal of SDG 10 is to ensure that economic, social, and political opportunities are more fairly distributed, regardless of factors such as income, gender, age, disability, race, ethnicity, religion, or sexual orientation. This includes efforts to reduce inequalities within countries by addressing disparities in income, education, healthcare, access to basic services, and political representation.

Reducing inequalities is not only a matter of social justice but also essential for achieving sustainable development. Persistent inequalities can hinder economic growth, exacerbate social tensions, and undermine efforts to eradicate poverty and promote peace and stability.

SDG 10 encompasses a wide range of targets, including measures to empower and promote the social, economic, and political inclusion of all, ensure equal opportunities for all, adopt fiscal and social policies that reduce inequality, and improve the regulation and monitoring of global financial markets and institutions.

UKM embraces diversity, advocates for fairness, and collaborates to narrow societal divides, empowering communities to flourish with equal opportunities for all citizens. This aligns with UKM Sustainability Policy 2030: UKM embraces diversity, supports justice, and collaborates to bridge societal gaps, empowering communities where all citizens can thrive.



## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

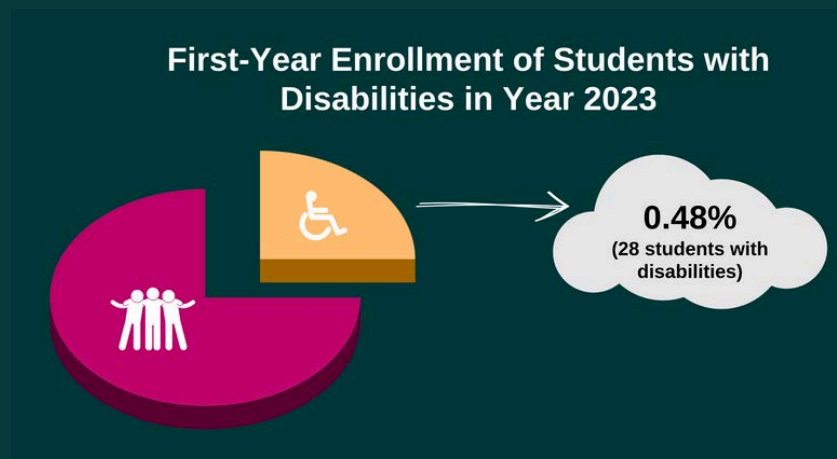
### FIRST-YEAR ENROLLMENT OF UNDERREPRESENTED GROUPS

UKM tracks the applications and admissions of underrepresented groups, including ethnic minorities, disabled students, and low-income students.

From 2021 to 2023, UKM made progress in increasing enrollment for ethnic minority groups. In 2023, 632 ethnic minority students were accepted, making up 10.50% of acceptances, up from 156 (2.18%) in 2021. Groups like Orang Asli, Bumiputera Sabah and Bumiputera Sarawak saw notable growth.



For students with disabilities, 26 were accepted in 2023 (0.48%), improving from 21 (0.34%) in 2022. This upward trend shows UKM's dedication to supporting students with disabilities.



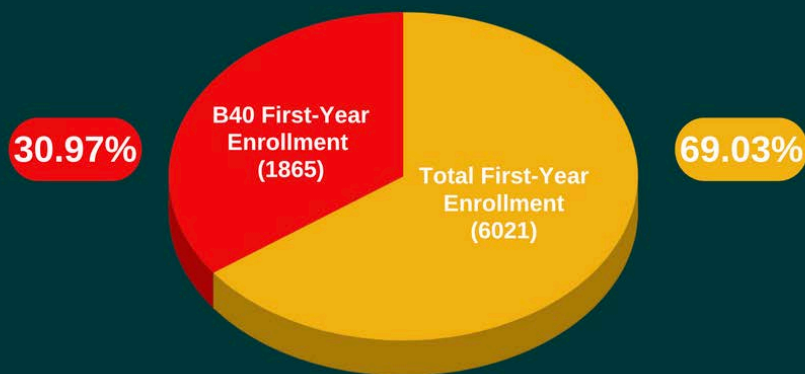




## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

In Malaysia, low-income households are categorised under the B40 group, representing the bottom 40% of income earners. In 2023, 1,865 B40 students were accepted into UKM, making up 30.97% of the total 6,021 accepted students, an increase from 1,460 (23.38%) in 2022.

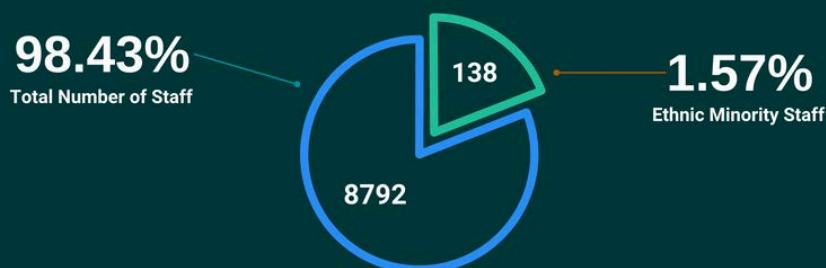
### B40 First-Year Enrollment at UKM in Year 2023



## STAFF OF UNDERREPRESENTED GROUPS

In 2023, the university employed 8,792 staff members, including 138 ethnic minority staff, ensuring meaningful representation and equal opportunities for these groups. UKM's workforce includes significant representation from communities such as Sabah, Sarawak, and the Orang Asli, with 27 Iban non-academic staff, 6 Bajau non-academic staff, and 4 Kadazan academic staff, reflecting the university's dedication to diversity and inclusion.

### Ethnic Minority Staff in Year 2023

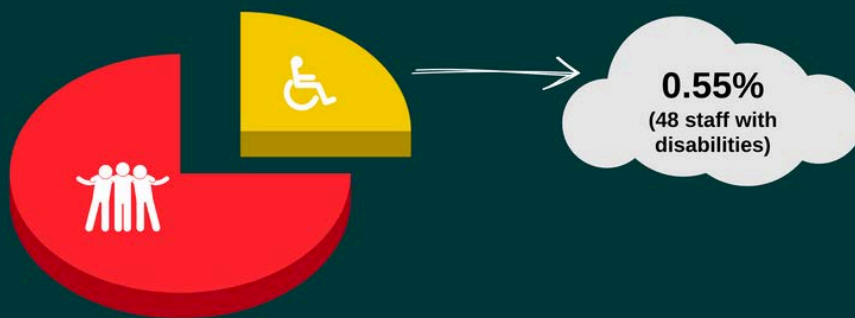




## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

In 2023, UKM employed a total of 8,792 staff, out of which 48 were individuals with disabilities. This represents 0.55% of the total workforce, which falls slightly below the 1% target outlined by the policy. Of these 48 staff members, 41 are non-academic staff, while 7 are academic staff.

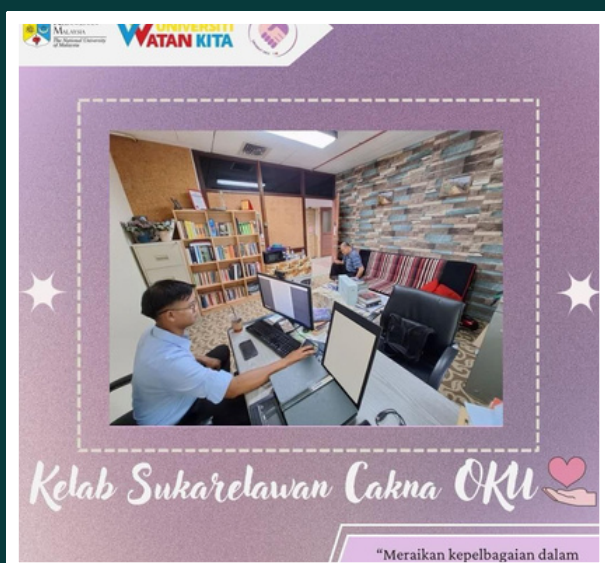
Staff with Disabilities  
in Year 2023



## INCLUSIVE SUPPORT FOR PEOPLE WITH DISABILITIES

### CAKNA OKU VOLUNTEER CLUB (SAHABAT)

This volunteer-based club not only raises awareness but also provides practical support to disabled individuals within the university community. Members of the club act as "buddies" to disabled staff and students, offering assistance such as helping them move between offices or classrooms, providing guidance around campus, and supporting them during events.





## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

### DISABILITY SUPPORT AND SERVICES UNIT (UPS-OKU), REGISTRAR'S DEPARTMENT

## DISABILITY SUPPORT AND SERVICES UNIT (UPS-OKU UKM)

### 1 INTRODUCTION

**Disability Support and Services Unit (UPS-OKU UKM)** was established on 12th December 2019 under the Registrar's Department, fully supervised by the Vice-Chancellor. The purpose of the establishment of this unit is to give support to the disabled staff and students according to their disability and empower them to succeed in their careers and education in UKM.

This unit was operated by referring to the Guidelines for Implementation of Disability Inclusive Policy in Higher Education Institutions (Garis Panduan Pelaksanaan Dasar Inklusif Orang Kurang Upaya di Institut Pendidikan Tinggi) by the Ministry of Higher Education (MOHE), Strategic Planning for Disability Inclusive Policy 2019-2023 and UKM's Strategic Plan (TERAS) 2021-2025.

#### The main functions of UPS-OKU UKM

- 1 Collect and process the information of the staff and students with disabilities.
- 2 As a reference to any aspect of academic purposes, infrastructure and building a support system for any request from the disabled staff, students and visitors.
- 3 Building and sustaining a good relationship with government agencies, industries and Non-Government Organizations.
- 4 Organizing awareness program among staff and students.
- 5 Receive and process any complaint regarding disability issues.

### 2 SERVICES & SUPPORT

**Volunteers Club (Sahabat OKU)**

**Disability Liaison Officer (DLO)**

**Psychology and Emotional Support**

**Services & Support**

**Coordinate the applications for Bantuan Kewangan OKU (BKOKU) to the Department of Higher Education, Ministry of Higher Education**

**Industrial Relations (Internship, Graduate Employability)**

**Sign Language Interpreter**

### 3 FACILITIES

**Mobile Van Service**  
Equip with seven seats and wheelchair lift.

**Library**  
Caret rooms, information packages, material searches, elevators, accessible toilet and special route to access the 24-hours room.

**Mosque**  
Accessible mosque (Parking, ramps, tactile & accessible toilet)

**Accessible Toilet**  
Following the Universal Design and Accessibility in the Built Environment (MS 1184:2014) requirement.

**Website**  
Accessible website.

**Ramp & Tactiles**  
Accessible building for wheelchair users and blind.

**Disabled Parking Space**  
Located at the nearest entrance with signage.

**Residential Colleges**  
UKM provide two (2) residential college for students with disabilities.  
(Ungku Omar College – 3 rooms for male and 3 rooms for female students)  
(Dato' Onn College – 1 room for male and 1 room for female students)

### 4 CONTACT

Unit Pendaftaran & Sokongan OKU  
Jabatan Pendaftaran  
Asef 1, Bangunan Canselor,  
Universiti Kebangsaan Malaysia,  
43600 UKM Bangi, Selangor

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[upsoku@upku.oku.my](mailto:upsoku@upku.oku.my)  
 03-8951-8222/8954-8009

[facebook.com/UnitInklusiKampusDanSokonganOKU](https://www.facebook.com/UnitInklusiKampusDanSokonganOKU)  
 @upsokuukm





## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

### SIGN LANGUAGE INTERPRETER

The university provides sign language interpreters for individuals who are mute or deaf. During every convocation session, a sign language interpreter is present, ensuring that all attendees, especially those who are deaf or hard of hearing, can fully participate in and celebrate their achievements. Additionally, in any event or occasion where disabled staff or students are present, a sign language interpreter is provided.



### DISABLED STUDENTS AND ALUMNI CAREER PROGRAM

UKM also provides support to disabled students and alumni, helping them explore career pathways post-graduation. On June 21, 2023, UKM collaborated with Maybank to organise the "Career Program for Disabled Students and Alumni with Maybank." This program introduced participants to work placement opportunities and offered valuable insights from recruiters' perspectives.





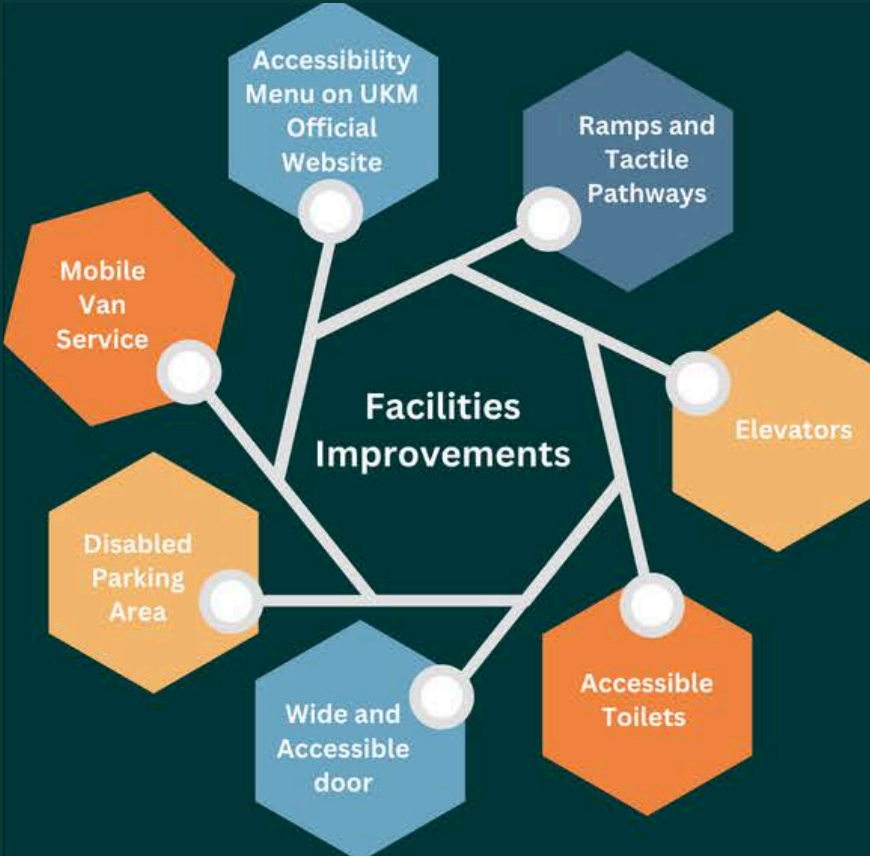
## REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

### UKM CAKNA OKU CARNIVAL

The UKM Cakna OKU Carnival, held on January 26-27, 2023, aimed to increase the knowledge and understanding of the university community, industry, and the public regarding people with disabilities. The event brought together students, staff, and external organisations to raise awareness about disability rights and support, offering networking opportunities for individuals with disabilities. Various activities and exhibitions were held to spread awareness and promote inclusivity, providing a platform for learning and engagement.



### FACILITIES IMPROVEMENTS





## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

SDG 11 stands for Sustainable Development Goal 11, which is part of the United Nations' 2030 Agenda for Sustainable Development. SDG 11 focuses on "Sustainable Cities and Communities," with the aim of making cities and human settlements inclusive, safe, resilient, and sustainable. As urbanization accelerates globally, the way cities and communities are planned, built, and managed becomes increasingly critical for achieving sustainable development. SDG 11 addresses various challenges related to urbanization, including inadequate housing, lack of basic services, traffic congestion, air pollution, insufficient infrastructure, and vulnerability to natural disasters.

The goal outlines targets to address these challenges, such as ensuring access for all to safe and affordable housing, upgrading slums, providing adequate and sustainable transport systems, enhancing urban resilience to disasters, and preserving cultural and natural heritage.

Achieving SDG 11 requires integrated and participatory approaches involving governments, local authorities, urban planners, communities, civil society organizations, and the private sector. It involves adopting sustainable urban planning and management practices, investing in resilient infrastructure, promoting affordable and sustainable housing solutions, and enhancing access to green spaces and public services. By making cities and human settlements more inclusive, safe, resilient, and sustainable, SDG 11 contributes to improving the quality of life for urban residents, reducing inequality, promoting economic prosperity, and protecting the environment. It plays a crucial role in shaping the future of our increasingly urbanized world and ensuring that cities become engines of sustainable development for all.

This aligns with UKM Sustainability Policy 2030: UKM leverages its campuses to serve as models for sustainable urban planning, through effective waste management and green infrastructure development.





## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### PUBLIC ACCESS TO BUILDINGS

UKM's commitment to arts, heritage, and sustainability positions it as a leader in promoting sustainable cities and communities. By offering free access to culturally significant buildings, green spaces, and promoting local arts, UKM ensures the preservation of Malaysia's cultural heritage while driving sustainable urban development. Most of UKM's buildings embody a brutalist architectural style, adding a unique and cohesive character to the campus that celebrates architectural heritage. Its dedication to eco-friendly practices, affordable housing, and inclusive commuting solutions further reflects UKM's leadership in achieving SDG 11, setting a model for sustainable living and working environments.



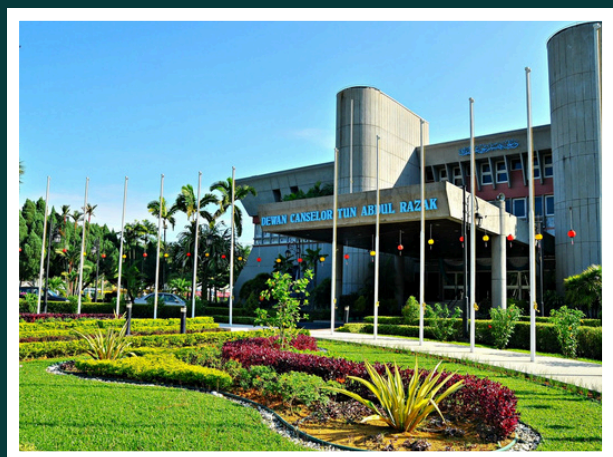
Chancellery Building, UKM



Tun Sri Lanang Library, UKM



UKM Mosque



Chancellor Hall Tun Abdul Razak (DECTAR), UKM



## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### PUBLIC ACCESS TO MUSEUMS

UKM safeguards a wealth of national and academic treasures through its 18 diverse museums and galleries. These spaces, open to the public, showcase a range of cultural, scientific, and historical themes. From the Museum of Asian Art, which highlights regional artifacts, to the Geological and Biodiversity Museums, which celebrate the natural world, UKM offers a comprehensive cultural experience. The university is also dedicated to preserving the Malay language and culture, with dedicated spaces showcasing the rich history and evolution of these traditions.



Tuanku Chancellor Gallery, UKM



Academic Heritage Museum, UKM



Lithograph, Caricature, and Manuscript Gallery, UKM



Malay Fashion Center, UKM



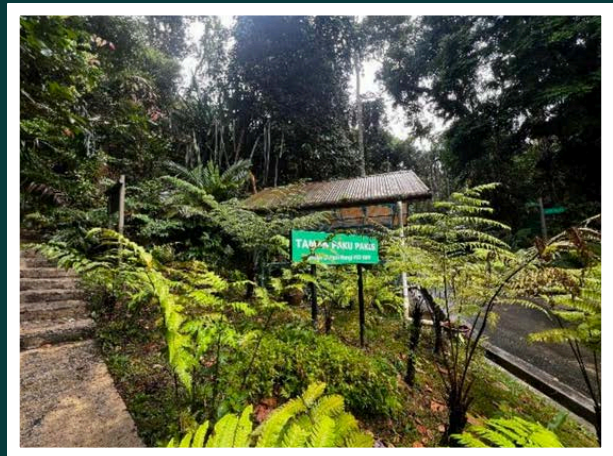
## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### PUBLIC ACCESS TO GREEN SPACES

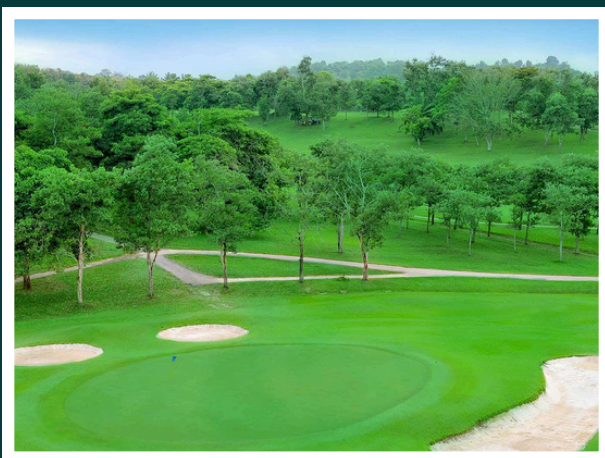
UKM offers free access to various green spaces, including the The Faculty of Engineering and Built Environment Lake, Botanical Gardens, Danau Golf Club, and the Bangi Permanent Forest Reserve. These serene spaces contribute to environmental sustainability and enhance the quality of life for students, staff, and the local community. Such initiatives demonstrate UKM's commitment to environmental sustainability and community well-being by creating serene green spaces accessible to all.



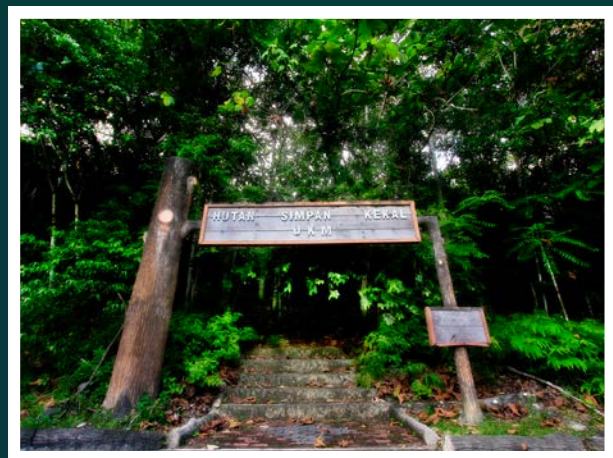
The Faculty of Engineering and Built  
Environment Lake, UKM



Botanical Gardens, UKM



Danau Golf Club, UKM



Bangi Permanent Forest Reserve, UKM



## ARTS AND HERITAGE CONTRIBUTION

UKM contributes to local arts, in terms of the number of annual public performances of university choirs/ theatre groups/ orchestras and etcetera. UKM's engagement with the arts is demonstrated through its vibrant cultural scene. In 2023, the university hosted over 30 cultural performances, ranging from theatre productions to musical concerts and traditional dance showcases. These events highlight UKM's ongoing dedication to promoting local arts and creating opportunities for the public to experience Malaysia's rich cultural traditions. For 2024, a continued emphasis on cultural activities is evident, reflecting UKM's role in fostering a lively arts scene that contributes to the cultural vitality of the region.



Konsert Citra Seni,UKM



Malaya Pop



Festival Ungku Omar (UOFEST) 2023



Singkap Tabir



Festival Borneo



Malam Bintang UKM 2023





**MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE**

## ARTS AND HERITAGE CONTRIBUTION





## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### INITIATIVES TOWARD CAMPUS LOW CARBON

UKM actively measures and sets ambitious targets for sustainable commuting, focusing on reducing reliance on carbon-intensive vehicles. The university provides an array of eco-friendly commuting options, including dedicated pedestrian and cycling paths, shuttle buses, and electric vehicle (EV) charging stations.



Shuttle Services



Hydrogen Hybrid Vehicle



Electric buggy facilities



e-Scooters



Renewable Energy



## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### AFFORDABLE HOUSING FOR EMPLOYEES

UKM provides several affordable housing options for its employees, ensuring access to comfortable living spaces close to campus. The Bukit Puteri Housing and Principal's House are two notable examples of the residential facilities offered to those eligible to occupy the house based on their positions.



Rental rates below market prices, these housing facilities—located in areas such as Pangsapuri UKM Seksyen 1, Pangsapuri Laman Midah Cheras, Rumah Teres Jalan 6, and Pangsapuri UKM Blok 6—make it easier for staff to live close to work, reducing the need for long commutes and supporting a healthier work-life balance.

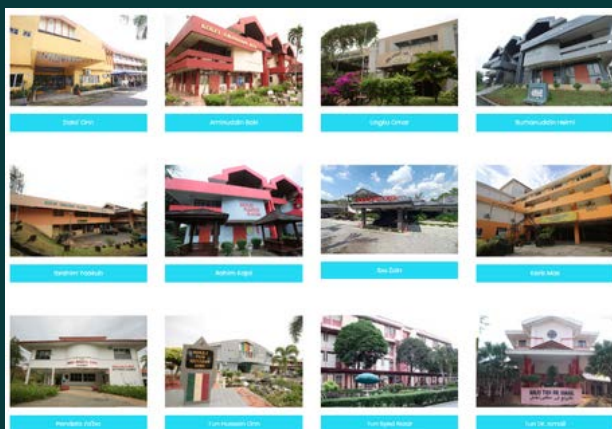


On Campus Housing at Bukit Puteri residential and dedicated housing for Principal Fellows of Residential Colleges. Situated within the campus, Perumahan Bukit Puteri allows eligible staff to live closer to their workplace, reducing commuting time and promoting a balanced, sustainable lifestyle.

## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### AFFORDABLE HOUSING FOR STUDENTS

UKM is committed to providing affordable and inclusive housing options for its students. The university offers a range of accommodation choices, including on-campus residential colleges like Dato' Onn College, Ungku Omar College, and Aminuddin Baki College. These colleges provide well-maintained facilities at affordable rates, fostering a conducive learning environment. For students who prefer off-campus housing, UKM offers guidance and support in finding suitable accommodations near the campus. Special deals, such as first-month free rentals or discounted rates, are available to help students find affordable housing options.



Residential colleges are available in on-campus area



**STUDENT ACCOMMODATION**

**BANGI GATEWAY SERVICE APARTMENT**

**FREE 1 MONTH**

1st MONTH





**MYKAD RATE AVAILABLE**

- Air-conditioned bedrooms
- Strategic Location (Near Shopping Complex)
- Complementary Wi-Fi
- UKM Shuttle Bus

**UKM REAL ESTATE**

**CONTACT US NOW!**

+6011-2090 7200

**UKM STUDENT ACCOMMODATION**

**@ BANGI GATEWAY SERVICE APARTMENT**



**Complete Facilities**

Gym, Swimming Pool, Playground, Basketball Court, Hall, Convenience Store, Access Card System, 24H Security

**Fully Furnished**

Bed, Wardrobe, Study Table, Air Conditioner, Water Filter, Refrigerator, Water Heater

**Free Wifi**

**UKM Shuttle Bus provided**

**Strategic Location**

Near Shopping Complex, Night Market, Restaurant, Laundrette

**Licensed Unit Available**

Apartment Type	Single Room	Twin Sharing Room
Intermediate Unit	RM 680	RM 490
Corner Unit	RM 730	RM 540

**UKM REAL ESTATE**

**011 - 2090 7200**

Contact us for more details

**SALES HOTLINE**

**011 - 2090 7200**

Contact us for more details

**UKM REAL ESTATE**





## MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

### PEDESTRIAN PRIORITY ON CAMPUS

UKM prioritizes pedestrian safety and well-being by implementing pedestrian-friendly initiatives. By creating a safe and accessible campus environment, UKM contributes to SDG 11, Sustainable Cities and Communities. The university has designated pedestrian-only zones, installed clear signage, and implemented traffic calming measures to encourage walking and cycling. These initiatives promote a healthier lifestyle, reduce carbon emissions, and create a more pleasant campus experience for students, staff and visitors.



Covered walkway along the Chancellory road



Pedestrian path separated from vehicle lanes by green verges



Planted as a natural barrier between the pedestrian path and the roadway



Covered walkway and separated from vehicle lanes by green verges



### PEDESTRIAN PRIORITY ON CAMPUS

#### Zebra Crossing

UKM has strategically installed zebra crossings throughout campus to prioritize pedestrian safety and facilitate smooth movement between frequently accessed areas.



## PEDESTRIAN PRIORITY ON CAMPUS

### Disabled-Friendly Features

To create an inclusive and accessible campus environment, UKM has incorporated various disabled-friendly features across its facilities. These improvements ensure that persons with disabilities have equal access to campus resources, enhancing mobility, safety, and convenience.





## ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

SDG 12 stands for Sustainable Development Goal 12, which is part of the United Nations' 2030 Agenda for Sustainable Development. SDG 12 focuses on "Responsible Consumption and Production," aiming to ensure sustainable consumption and production patterns. In today's world, unsustainable consumption and production practices are leading to environmental degradation, resource depletion, pollution, and climate change. SDG 12 addresses these challenges by promoting more efficient and sustainable use of resources, reducing waste generation, and minimising the environmental impact of consumption and production activities.

The goal outlines various targets to achieve these objectives, including promoting sustainable resource management, halving global food waste and reducing food losses, implementing sustainable practices in industries, encouraging companies to adopt sustainable procurement and reporting practices, and providing consumers with information and awareness about sustainable lifestyles.

Achieving SDG 12 requires collaboration among governments, businesses, consumers, and other stakeholders. It involves implementing policies and regulations that promote sustainable consumption and production, investing in cleaner and more resource-efficient technologies, and fostering innovation throughout the value chain.

By promoting responsible consumption and production, SDG 12 aims to reduce environmental degradation, mitigate climate change, protect ecosystems, and improve human well-being. It plays a crucial role in transitioning towards more sustainable and resilient societies for present and future generations. This aligns with UKM Sustainability Policy 2030: UKM is committed to addressing SDG 12 challenges through responsible procurement policies, promoting resource efficiency in energy and water usage, and educating the community on sustainable practices.





## ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

### COMMITMENT TO CARBON NEUTRAL UNIVERSITY

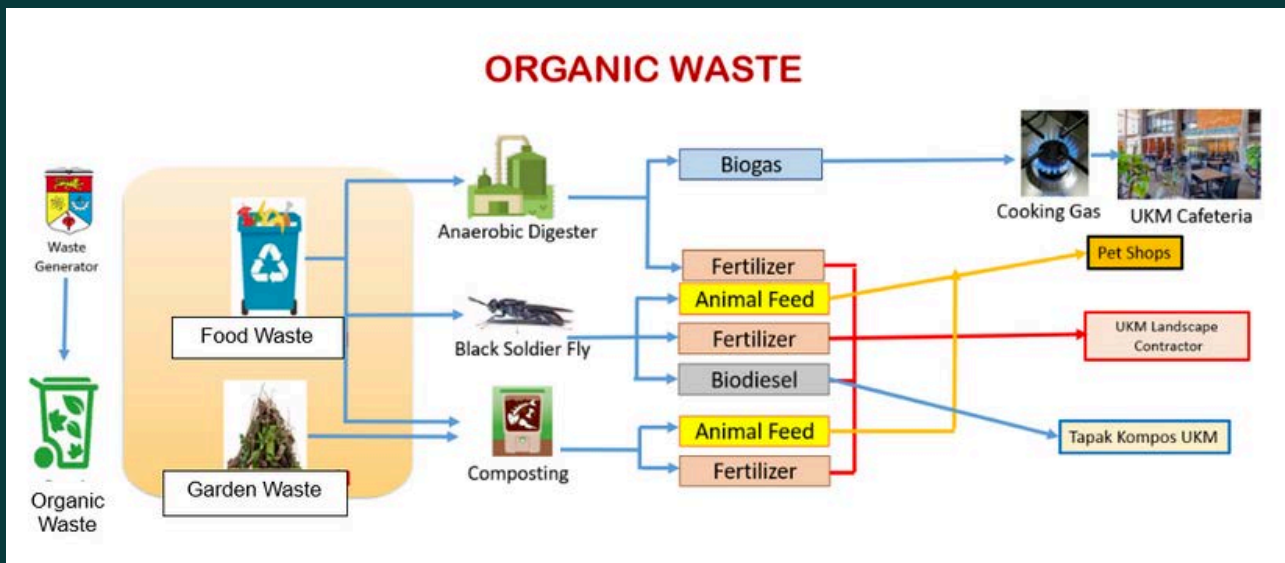


National Solid Waste Management Policy 2016

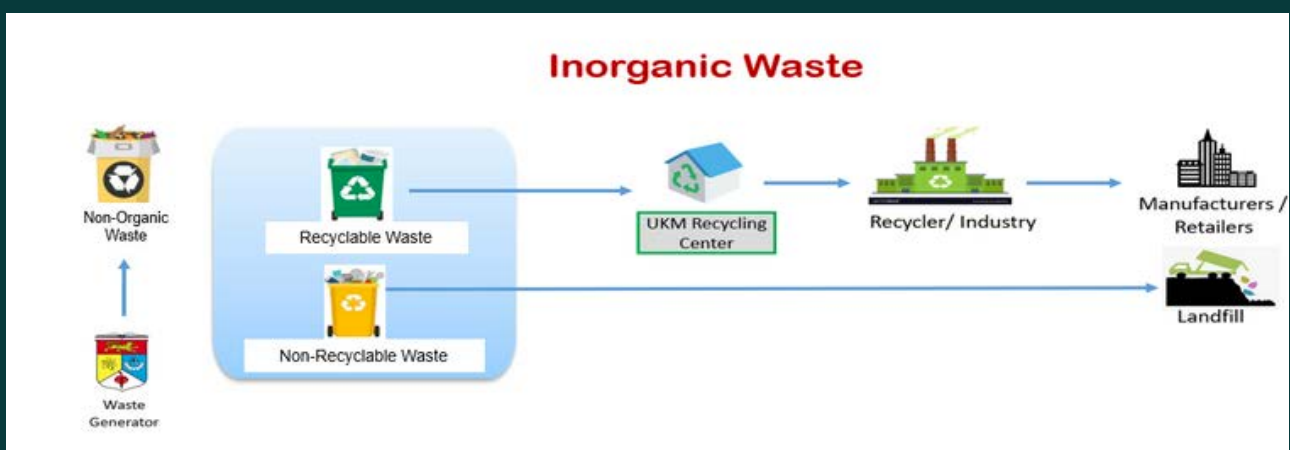
UKM implements the National Solid Waste Management Policy 2016 published by the Department of Local Government Development, which emphasizes the importance of waste reduction through the 3R hierarchy: Reduce, Reuse, Recycle. This policy guides UKM's approach to domestic waste management, ensuring compliance with government regulations and sustainability objectives. "Dasar Pengurusan Sisa Pepejal Negara" (National Solid Waste Management Policy) document outlines Malaysia's strategic approach to achieving sustainable solid waste management. The policy aims to create an integrated, cost-effective, and environmentally friendly solid waste management system that ensures public health and environmental preservation. It emphasizes the waste management hierarchy, prioritizing reduction, reuse, recycling (3R), intermediate treatment, and final disposal. This policy underscores a commitment to sustainable development by setting comprehensive guidelines and objectives for effective waste management across Malaysia.

### WASTE MANAGEMENT PROCESS

#### ORGANIC WASTE PROCESS



#### IN-ORGANIC WASTE PROCESS



## ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

### UKM RECYCLING CENTER

The UKM Recycling Center (PKSUKM) was established in 2011 and has partnered with Alam Flora Sdn Bhd, a waste disposal company. It was built with the aim of managing solid waste in an integrated manner towards achieving the first Zero Waste Campus. PKSUKM was handed over to the Department of Infrastructure Development in 2016 until now to manage waste separation, recycling, composting and education as well as awareness for UKM staff, students and the local community.

UKM Recycling Centre (PSUKM) is a recycling facility where recycled products are collected, used, reused and sold on campus. Recycle-reuse-reduce programs and modules for UKM students and neighboring communities are also provided. UKM has a dedicated recycling center situated at the main campus that also serves the surrounding communities. The building itself is designed to be eco-friendly. The main purpose of the Recycling Center UKM Bangi is to reduce the organic waste that transfers to landfill.





## ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

### PAPER AND PLASTIC REDUCTION PROGRAMS

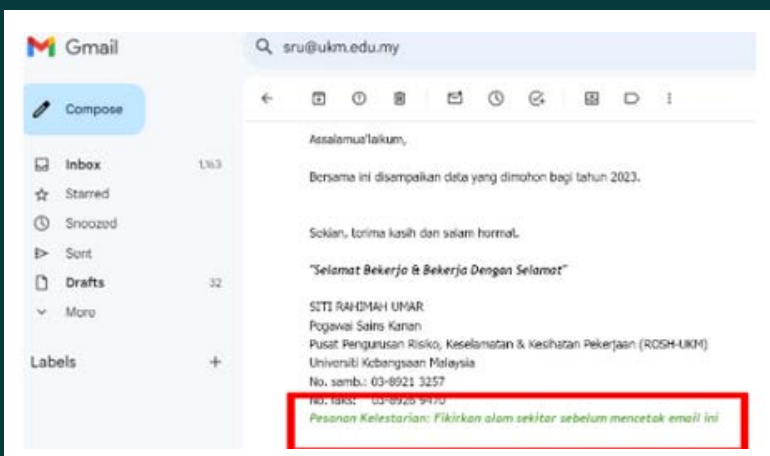
The paper and plastic reduction program on campus is a strategic initiative implemented by our university to address environmental concerns and promote sustainable practices within our community. The program is designed to minimize the use of paper and plastic across campus facilities, fostering a culture of environmental responsibility among students, faculty, and staff.



**Recycling Bin  
Available in UKM**



**Paperless Digital  
Document**



**Sustainable Emel message  
: print when necessary**

### ORGANIC WASTE TREATMENT

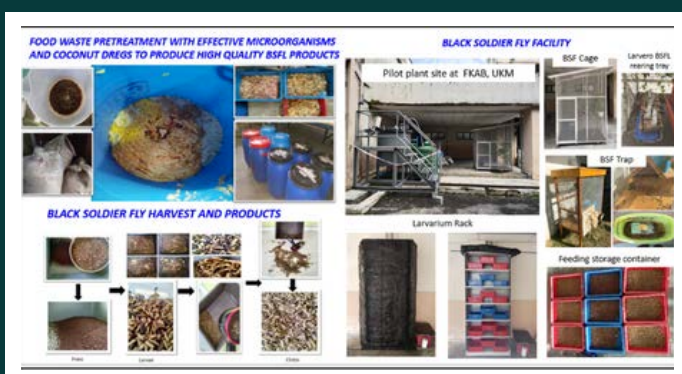
At Universiti Kebangsaan Malaysia, has made several initiatives to reduce our waste production such as a reduced, recycle and upcycled program. Upcycle program include treatment process on organic waste. At UKM, organic waste management is divided into several sustainable processes. Food waste is treated through composting, anaerobic digestion, and black soldier fly processing. Yard waste is entirely directed to the composting center, producing fertilizer used in campus landscaping.



**Composting Center**



**Anaerobic Digestion**



**Black Soldier Fly (BSF)  
Bioconversion**

## ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

### WASTE TO LANDFILL

UKM appoints the waste disposal contractor that measures the amount of waste sent to landfill. The waste loading process in UKM is operated daily. The waste contractor that manages waste disposal at UKM delivers the waste at Tanjung Dua Belas Sanitary Landfill, Sepang, Selangor. UKM only treated a certain amount of waste due to limitation of composting center capacity and the balance of the waste produce will be send to registered landfill.



Tanjung Dua Belas Sanitary Landfill, Sepang, Selangor



Waste collection from UKM to Landfill





## TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

**SDG 13 refers to Sustainable Development Goal 13, one of the seventeen global goals established by the United Nations as part of the 2030 Agenda for Sustainable Development. SDG 13 focuses on "Climate Action," aiming to take urgent action to combat climate change and its impacts. Climate change poses one of the most significant challenges of our time, with far-reaching consequences for the environment, society, and the economy. Rising global temperatures, extreme weather events, sea-level rise, and other climate-related phenomena threaten ecosystems, livelihoods, and human well-being worldwide.**

**SDG 13 outlines various targets to address these challenges, including strengthening resilience and adaptive capacity to climate-related hazards, integrating climate change measures into national policies, strategies, and planning processes, improving education, awareness, and capacity-building on climate change mitigation, and promoting international cooperation to implement climate action initiatives.**

**Achieving SDG 13 requires coordinated efforts at the global, national, and local levels. It involves reducing greenhouse gas emissions through measures such as transitioning to renewable energy sources, increasing energy efficiency, promoting sustainable transportation, and protecting and restoring ecosystems that sequester carbon. By taking ambitious climate action, societies can not only mitigate the impacts of climate change but also create opportunities for sustainable development, innovation, and green growth. SDG 13 underscores the urgent need for collective action to safeguard the planet and ensure a sustainable future for current and future generations.**

**This aligns with UKM Sustainability Policy 2030: UKM is committed to realizing the Zero Carbon Campus 2050 by efforts to reduce greenhouse gas emissions, adaptation strategies, and climate research for a sustainable university future.**



## TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

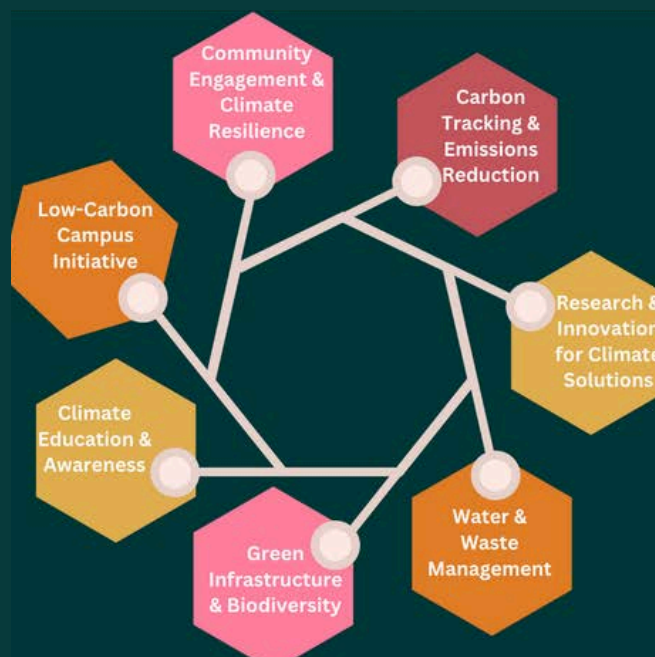
### COMMITMENT TO CARBON NEUTRAL UNIVERSITY

UKM is on a path to carbon neutrality by 2050. Our roadmap includes a significant reduction in on-campus carbon emissions by 2030. To get there, UKM is implementing a comprehensive sustainability strategy targeting all emission scopes (1, 2, and 3). This multi-faceted approach minimises our environmental impact across the entire university.

UKM'S COMMITMENT TO CARBON NEUTRAL 2050		2022	2023	2024 (Estimation)	2030 (Estimation)
Energy produced from renewable energy sources		0 kWh	0 kWh	1.15 mil kWh (energy saving up to 3%)	11.49 mil kWh (energy saving up to 16%)
Annual energy consumption per capita*		2051.19 kWh per person	2085.13 kWh per person	1964.12 kWh per person	2129.19 kWh per person
Use energy-efficient equipment/devices		50%	70%	70%	90%
Increase the use of recycled materials		5%	20%	25%	Increase the use of 50%
Annual water consumption per capita*		102.19 m3 per person	101.63 m3 per person	100 m3 per person	95 m3 per person
Sustainable commuting on campus	Owned vehicle by university (lorry, van, car)	120	120	120	EV in campus up to 30%
	Private car and motorcycle	2437	2806	2947	
	Shuttle bus	17	17	17	
	Zero Emission Vehicle	280	280	300	

\*Malaysia annual energy consumption per capita in year 2021 is 4,421.62 kWh

### UKM SUSTAINABILITY STRATEGIC PLAN 2030





## TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

### LOW CARBON APPLIANCES AND ENERGY EFFICIENCY AT UKM

UKM has transformed campus buildings and street lighting by replacing conventional fixtures with high-efficiency LED lighting, achieving substantial reductions in energy consumption while enhancing visibility and safety. This shift to energy-efficient lighting underscores UKM commitment to a sustainable, eco-friendly campus and is a key component of its ongoing low-carbon energy tracking and reduction initiatives.



UKM has advanced its low-carbon energy tracking initiatives by upgrading campus buildings with inverter technology air conditioners. These units optimize energy consumption by adjusting power output in real-time, based on the precise cooling needs of each space. Unlike traditional systems that operate at fixed speeds, inverter air conditioners automatically modulate energy use, ensuring efficient operation and minimizing energy waste.

UKM has advanced its low-carbon energy tracking with an IoT-enabled air quality monitoring system across campus buildings. Equipped with power meters and temperature and humidity sensors, this system provides real-time data on environmental conditions, allowing UKM to optimize HVAC use and reduce energy consumption effectively. By adjusting climate control based on precise, real-time data, UKM enhances energy efficiency without compromising indoor air quality, underscoring its commitment to sustainable campus management and smart, eco-friendly operations.







## TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

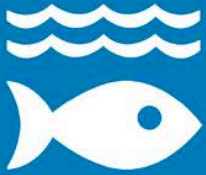
### ENVIRONMENTAL EDUCATION COLLABORATE WITH NGO

UKM's collaboration with NGOs to advance environmental education is demonstrated through initiatives like the 2023 Sungai Langat River Denai Run, organised in partnership with Friends of Rivers Malaysia (FoRM) for World Rivers Day. This event brought together over 570 participants to raise awareness about river conservation by combining physical activity with environmental action. Participants not only engaged in a 5- and 15-kilometer run but also contributed to river cleanup efforts, collecting litter along the route to promote the importance of reducing pollution and protecting natural waterways.



On 8 November 2023, In collaboration with Joint Management Body (JMB) Seri Tanjung and the Khadijah International Waqf Foundation (KIWF), UKM Environmental Management Center (EMC) organised a community program at Apartment Seri Tanjung in Bandar Baru Bangi. This initiative aimed to promote environmental awareness by educating residents on recycling and sustainable living practices.





## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

SDG 14 stands for Sustainable Development Goal 14, which is part of the United Nations' 2030 Agenda for Sustainable Development. SDG 14 focuses on "Life Below Water," aiming to conserve and sustainably use the oceans, seas, and marine resources for sustainable development. Oceans play a crucial role in supporting life on Earth, regulating the climate, providing food and livelihoods for millions of people, and fostering biodiversity. However, marine ecosystems face a range of threats, including pollution, overfishing, habitat destruction, acidification, and climate change.

SDG 14 outlines various targets to address these challenges, including conserving at least 10% of coastal and marine areas, effectively regulating fishing activities, preventing and reducing marine pollution, conserving and restoring marine biodiversity, and enhancing scientific knowledge and research on oceans and marine resources.

Achieving SDG 14 requires concerted efforts from governments, international organizations, the private sector, civil society, and local communities. It involves implementing policies and regulations to protect marine ecosystems, promoting sustainable fishing practices, reducing plastic pollution, and improving waste management and wastewater treatment infrastructure. By conserving and sustainably managing marine resources, societies can not only preserve the health and resilience of oceans but also secure livelihoods, enhance food security, and promote economic prosperity for coastal communities and beyond. SDG 14 underscores the importance of protecting and preserving the ocean's vital role in sustaining life on Earth for present and future generations.

This aligns with UKM Sustainability Policy 2030: UKM endeavours to protect underwater biodiversity by promoting sustainable underwater life conservation to the university community, supporting marine conservation research, and advocating for policy changes.



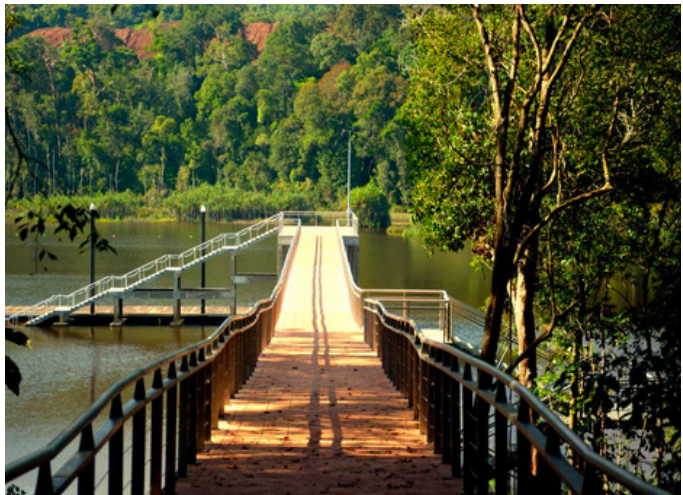
## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

### LIVING LAB UKM

The Living Labs at Universiti Kebangsaan Malaysia (UKM) exemplify the university's commitment to integrating research with natural ecosystems, serving as dynamic hubs for environmental study and innovation. These living laboratories span diverse natural habitats, including marine, freshwater, highland and tropical rainforests, allowing for a wide range of research activities tailored to their unique ecological settings. Each research center is strategically situated in environmentally rich and green areas to align with their research focus.

### TASIK CHINI RESEARCH CENTER, UKM

Tasik Chini Research Center (PPTC), located in Pekan, Pahang, is a pioneering institution dedicated to advancing both biotic and abiotic research on the rich biodiversity of flora, fauna, water, soil and air. PPTC serves as a critical hub for research, teaching, fieldwork, and community engagement. Its mission extends beyond academic research to promoting environmental awareness and disseminating integrated lake management practices to the broader community.







## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

### LANGKAWI RESEARCH CENTER, UKM

The Langkawi Research Centre (PPL), located within the Tuanku Abdul Halim Mu'adzam Shah Campus at the Langkawi UNESCO Global Geopark, serves as a cornerstone for research and academic services. PPL focuses on the integrated conservation of heritage and the sustainable development of geoparks, playing a pivotal role in safeguarding Langkawi's unique natural and cultural assets. The center actively contributes to enhancing the socioeconomic status of the region through sustainable tourism and conservation initiatives, working in close collaboration with UNESCO to ensure global best practices are applied. Nestled in a lush, green environment



### MARINE ECOSYSTEM RESEARCH CENTER (EKOMAR), UKM

The Marine Ecosystem Research Center (EKOMAR), located in Kampung Tanjung Resang, Mersing, Johor, is a premier institution dedicated to advancing marine science research. Recognizing the critical importance of marine resources and technology to Malaysia's development, Universiti Kebangsaan Malaysia (UKM), established EKOMAR to lead cutting-edge research in marine ecosystems and resource management. EKOMAR's scope goes beyond traditional marine science, integrating disciplines such as management, social sciences, marine law, and engineering to offer a holistic approach to marine conservation and sustainable development.





## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

### FRASER HILL RESEARCH CENTER , UKM

The Fraser Hill Research Center (PPBF), established by Universiti Kebangsaan Malaysia (UKM) in 1990, occupies 46 hectares of environmentally sensitive land granted by the Pahang State Government. As a premier research hub, PPBF focuses on conservation and sustainability, conducting vital research in areas such as bioengineering, nanotechnology, hydrology, geology, natural disaster management, botany, ecology, and the study of flora, fauna, and social environments. In addition to its academic and research functions, PPBF provides expert consulting services to prominent agencies, including the Pahang State Government, Fraser Hill Development Corporation, Raub District Office, Raub District Council, and the State Forestry Department.



## SUPPORTING AQUATIC ECOSYSTEMS PROGRAM

### SAHABAT SUNGAI HULU LANGAT

On November 11, 2023, the Sahabat Sungai Hulu Langat was launched at the Institut Kemahiran Tinggi Belia Negara Dusun Tua, marking the conclusion of the Laman Cakna Alam evaluation program.







## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

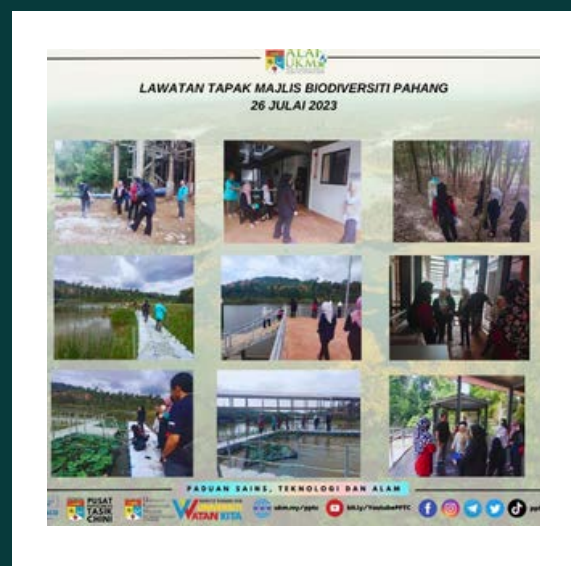
### GREEN CAMP FOR YOUTH @ TASIK CHINI UNESCO BIOSPHERE RESERVE' PROGRAM

17-19 November 2023 :UKM offers an educational program called the Green Camp for Youth @ Tasik Chini UNESCO Biosphere Reserve. This program, held at the Tasik Chini Research Center, is designed to engage school students in environmental preservation and conservation activities. Provides students with opportunities to develop proactive ideas for solving environmental related to water sources Tasik Chini's Lake.



### THE MAN AND BIOSPHERE 360° BIODIVERSITY EDUCATION PROGRAM

The program is specifically designed to engage school students in environmental preservation and conservation efforts through hands-on activities that foster a deeper understanding of water quality, ecosystem dynamics, and conservation practices. By participating in this program, students gain theoretical knowledge and practical skills, empowering them to contribute to environmental sustainability within their communities.







## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

### ETIQA'S MARINE CONSERVATION PROJECT RETURNS TO PULAU TIOMAN TO PROPAGATE NEW CORALS

UKM's Marine Research Centre (EKOMAR) in collaboration with Etiqa Marine Conservation Project 2023, in collaboration with Leges Divers and was held at Kampung Salang, Pulau Tioman. EKOMAR conducted research on marine resources and ecosystems with the aim of conservation and preservation of marine life ecosystems.



### BEACH CLEANING @PULAU KAPAS, TERENGGANU'

On 25 October 2023, beach cleaning activities took place on Pulau Kapas, Terengganu. The UKM Scuba Club has organized this activity in collaboration with the Bestari Club, Aminuddin Baki College. The program aims to keep the beach and the environment clean for a more prosperous life and promotes conservation and awareness on the anthropogenic impact on coral reef ecosystems.



### ENVIRONMENT FESTIVAL 2023

Environment Festival 2023, jointly organized by Kelanasiswa, Pusat Kesatria UKM and Caring Youth Club (WWF-Malaysia). Participants include school students, Boy Scouts, local residents and other NGOs. This festival aims to promote awareness on current environmental and conservation issues. Among the activities, include mangrove replanting using local sampling.





## CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

### 2023 MANGROVE CONFERENCE: MONITORING, CONSERVATION AND SUSTAINABLE DEVELOPMENT

UKM joined organized the Conservation event: '2023 Mangrove Conference: Monitoring, conservation and sustainable development'. This conference was held at Zhejiang University, Zhoushan, from 17-18 October 2023. Universiti Kebangsaan Malaysia, led by Professor Che Abd Rahim Mohmed



### INTERNATIONAL DAY FOR THE CONSERVATION OF THE MANGROVE ECOSYSTEM

On 26 July 2023, the Mahathir Science Award Foundation (MSAF) with the Academy of Sciences Malaysia held our fourth webinar series, in conjunction with the International Day for the Conservation of the Mangrove Ecosystem, focusing on 'Protection and Restoration of Mangrove Ecosystems in the Tropics'. UKM is involved in this event through our presentative Dr. Aldrie Amir from Institute for Environment and Development (LESTARI), UKM.



### SUSTAINABILITY TALK SERIES 3/2023

28 March 2023: UKM-YSD Chair for Sustainability, FKAB has organized the webinar talk on **Moving Towards Participatory, Holistic, and Sustainable Marine Resource Management in Malaysia**. The talk is from Mr. Julian Hyde, General Manager, Reef Check Malaysia. The aims to discuss strategies for sustainable marine resource management in Malaysia, emphasizing a participatory and holistic approach.





## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

SDG 15 refers to Sustainable Development Goal 15, which is part of the United Nations' 2030 Agenda for Sustainable Development. SDG 15 focuses on "Life on Land," aiming to protect, restore, and sustainably manage terrestrial ecosystems, forests, and biodiversity. Terrestrial ecosystems, including forests, grasslands, wetlands, and mountains, provide vital services and resources that support life on Earth. However, these ecosystems are under increasing pressure from deforestation, land degradation, desertification, habitat loss, biodiversity loss, and invasive species.

SDG 15 outlines various targets to address these challenges, including halting deforestation, restoring degraded land and forests, combating desertification and land degradation, conserving and restoring biodiversity, and promoting sustainable land management practices.

Achieving SDG 15 requires collaborative efforts from governments, international organizations, the private sector, civil society, and local communities. It involves implementing policies and initiatives that promote sustainable land use, protect and restore ecosystems, and conserve biodiversity. By safeguarding terrestrial ecosystems and biodiversity, societies can ensure the provision of essential ecosystem services, such as clean air and water, soil fertility, climate regulation, and carbon sequestration. SDG 15 contributes to the conservation of natural resources, the preservation of biodiversity, and the promotion of sustainable development for present and future generations.

This aligns with UKM Sustainability Policy 2030: UKM ensures the well-being of natural ecosystems by conserving and restoring campus ecosystems, raising awareness about the importance of biodiversity, and conducting ecological research.





## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

### EVENTS ABOUT SUSTAINABLE USE OF LAND

#### SEMINAR ON SUSTAINABLE CROP MANAGEMENT & PRODUCTION

On August 1, 2023, at the Faculty of Science and Technology (FST) of UKM is a significant academic and industry collaboration aimed at enhancing agricultural practices in Malaysia. This event serves as a pivotal platform for showcasing cutting-edge research and expertise from UKM Department of Biological Sciences and Biotechnology, particularly within the Sustainable Crop Management and Improvement Cluster.



#### KURSUS ASAS TEKNIK PERSAMPELAN DAN ANALISIS SAMPEL PERTANIAN (AIR, TANAH, BAJA DAN MIKROB)

On 20 - 23 Mac 2023, ALIR at the Faculty of Science and Technology, in collaboration with SMN Teknik Solution Sdn Bhd and the Vocational Colleges of the Ministry of Education Malaysia, is set to host a foundational course on Sampling Techniques and Analysis of Agricultural Samples, covering key areas such as water, soil, fertilizers, and microorganisms. This initiative is significant as it aims to enhance the skills and knowledge of vocational college teachers, equipping them with essential techniques and analytical methods pertinent to agricultural science.

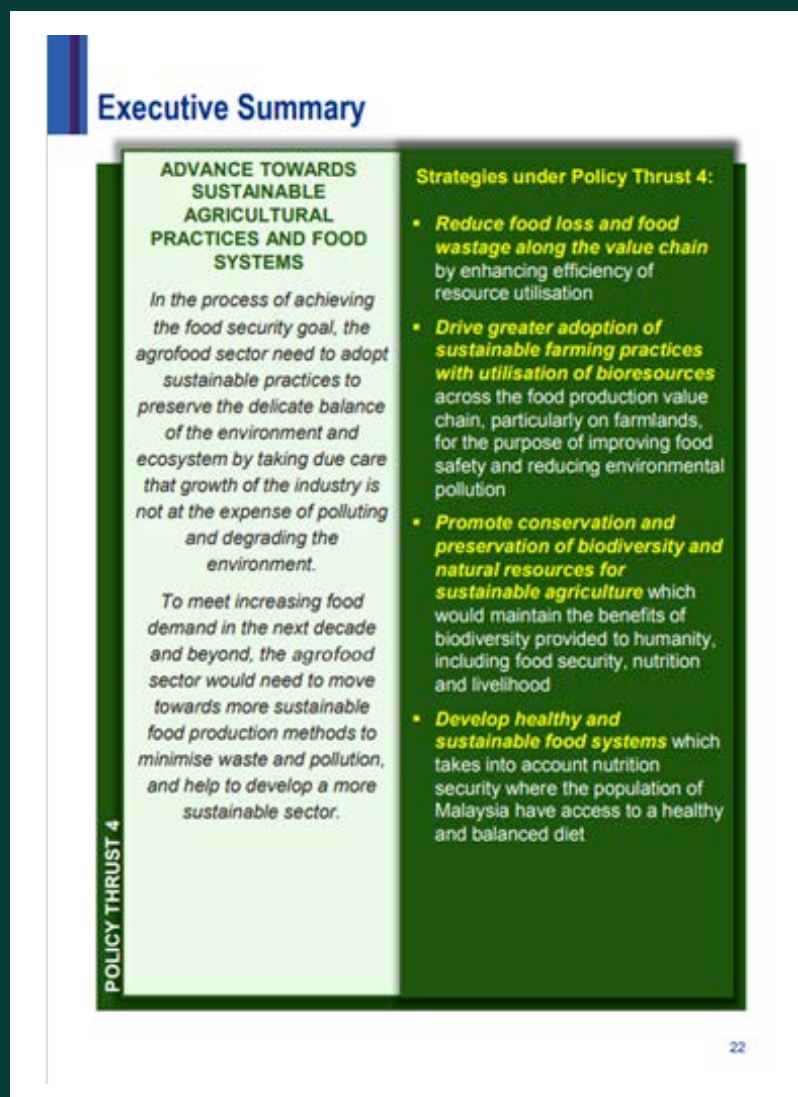


## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

### SUSTAINABLY FARMED FOOD ON CAMPUS

#### NATIONAL AGROFOOD POLICY 2021-2030

The National Agrofood Policy 2021-2030 (NAP 2.0) serves as a strategic framework for enhancing the agrofood sector in Malaysia, focusing on sustainability, resilience, and technological advancement. Aimed at ensuring food security and improving national well-being, this policy seeks to modernize the agrofood industry while aligning with global sustainability goals, including the Sustainable Development Goals (SDGs).





## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

### SUSTAINABLE GARDEN@UKM

#### UKM BOTANICAL GARDEN

UKM Botanical Garden exemplifies this commitment by cultivating a diverse array of local fruits and vegetables such as corn, dragon fruit, pineapple, and pak choy using sustainable agricultural practices. These methods aim to reduce chemical inputs, conserve water, and enhance soil health.



#### UKM-YSD SUSTAINABLE GARDEN

This garden, situated at Ungku Omar Residential College and the Faculty of Engineering and Built Environment, cultivates a variety of crops such as choy sum, mustard greens, and ladyfinger, providing nutritious food to the campus community. The garden employs urban farming techniques, prioritizing sustainability by utilizing compost soil and organic fertilizers, while strictly avoiding pesticides.







## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

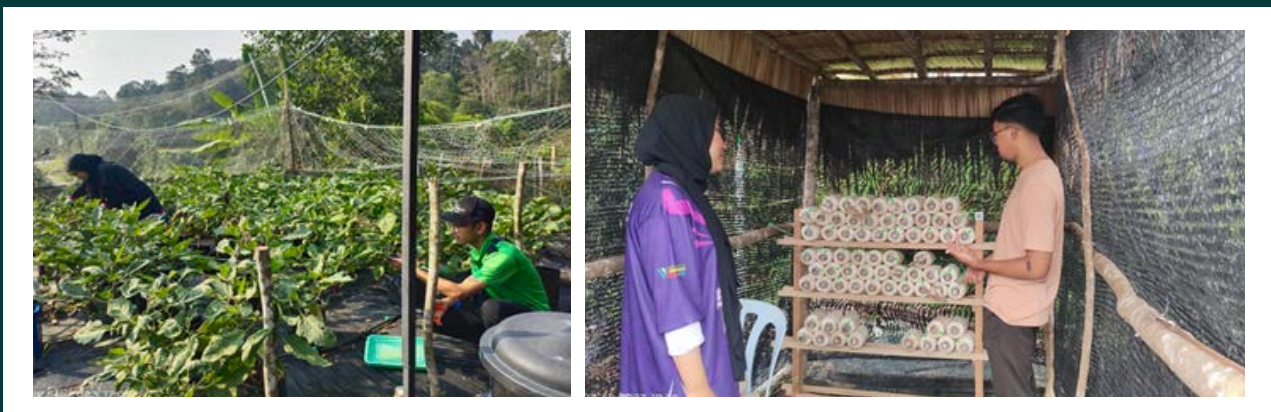
### TAMAN ILMU@CHANCELLERY

Located within the Chancellery Building, this garden thrives with a diverse range of vegetables, including water cabbage, curry tree, and Brazilian spinach, providing the UKM community with direct access to fresh, organic produce. By offering nutrient-dense and pesticide-free food, Taman Ilmu@Chancellery not only fosters healthier eating habits among students but also significantly enhances their overall well-being, contributing to a more vibrant and health-conscious campus atmosphere.



### URBAN FARMING BY MYAGROSIS CLUB

This project, which aligns with SDG 15, focuses on cultivating eggplants through advanced fertigation techniques, melons using sustainable hydroponics, and oyster mushrooms. By employing these cutting-edge agro-tech methods, MyAgrosis Club not only enhances food sustainability on campus but also directly contributes to alleviating food insecurity among students by providing fresh, nutritious produce free of charge.



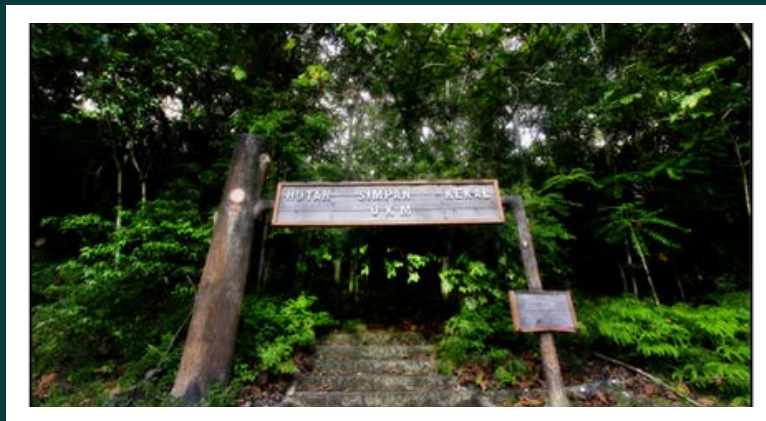


**PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS**

## **MAINTAIN AND EXTEND CURRENT ECOSYSTEMS' BIODIVERSITY**

### **FLORA CONSERVATION INITIATIVES AT UKM BOTANICAL GARDEN**

UKM Botanical Garden plays a pivotal role in the conservation of biodiversity and the promotion of sustainable practices. This botanical garden is dedicated to preserving a wide variety of plant species, particularly those native to Malaysia, which are crucial for maintaining ecological balance and supporting local ecosystems.



### **PROGRAM PENGHIJAUAN MALAYSIA: KOPERASI PRIHATIN SEJUTA POKOK**

UKM Botanical Garden stands as a vital center for flora conservation and biodiversity preservation, particularly highlighted by the inclusion of the Hutan Pendidikan Alam UKM (UKM Environmental Education Forest). This initiative is pivotal in safeguarding a diverse range of plant species, fostering a rich ecosystem that supports both local wildlife and educational endeavors. Among its significant contributions is the Program Penghijauan Malaysia: Koperasi Prihatin Sejuta Pokok, launched in 2023, which aimed to plant one million trees






## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

### UKM SUSTAINABILITY STRATEGIC PLAN 2030

UKM is dedicated to maintaining and enhancing the health of existing ecosystems and biodiversity on its campus as a critical component of its UKM Sustainability Strategic Plan 2030. Specifically, Objective 8 under Sustainability Pillar 4 emphasizes the conservation of natural resources and biodiversity, showcasing the university's commitment to ecological stewardship. This strategic framework directs UKM initiatives to promote ecosystem health through a multifaceted approach that includes rigorous research, educational programs, and active community engagement.



**SUSTAINABILITY PILLAR 4: SUSTAINABLE CAMPUS**

**OBJECTIVE 8:  
PRESERVATION AND CONSERVATION OF NATURE**

KEY PERFORMANCE INDICATOR	INITIATIVE	TARGET	ACTION
Conserving and preserving the ecosystem and biodiversity including flora and fauna	Develop an inventory of fauna and flora risk levels	Flora Inventory and UKM Reserve Forest	Head of <b>SDG 15</b>
	Create a flora and fauna digital information system	Flora and fauna digital information system	
Increasing ecosystem conservation and preservation activities as well as flora and fauna biodiversity	Carry out tree planting programs in UKM Bangi, Kuala Lumpur and Cheras campuses	Tree planting programs in UKM Campus	
	Implement flora conservation and preservation programs	Tree planting programs with government agencies / Non-Governmental Organizations / communities	
Creating a Policy on flora and fauna	Develop a Policy / Guidelines on the conservation and preservation of flora and fauna	Policy / Guidelines on the conservation and preservation of flora and fauna	





**PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS**

## EDUCATIONAL PROGRAMMES ON ECOSYSTEMS

### IKIM-LESTARI ECOLOGY CAMP 2023

The "Penjelajahan Geopark: Menyelami Ekosistem Kita" program, organized by the Islamic Understanding Institute of Malaysia (IKIM) in collaboration with the Institute for Environment and Development (LESTARI) at UKM, took place from September 21-23, 2023, at the Langkawi Research Centre (PPL) in Langkawi, Kedah. This three-day ecological camp aimed to provide participants, primarily 30 Form Four students and their teachers from SMK Tunku Putra, with direct exposure to ecological concepts and practices through hands-on activities.



### COMMUNITY EMPOWERMENT WORKSHOP

On June 10, 2023, a workshop titled "Community Awareness, Knowledge, and Understanding in the Conservation of Natural and Cultural Heritage Through the Geopark Concept as a Model for Sustainable Regional Development" was successfully held at Sekolah Kebangsaan Batu Arang, Selangor. This workshop marked the first in a series conducted under the Malaysian National Commission for UNESCO (SKUM) grant, aimed at enhancing the understanding of the geopark concept among educators and students while raising public awareness about the importance of conserving heritage in the Geopark Gombak-Hulu Langat area.





**PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS**

## SUSTAINABLE MANAGEMENT OF LAND FOR TOURISM

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## PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, AND HALT BIODIVERSITY LOSS

### KEM SEHARI SKUAD PALMA EMAS 2023

The Kem Sehari Skuad Palma Emas 2023 is a noteworthy educational initiative organized by UKM, aimed at children aged 8 to 12. This program, which took place on December 19, 2023, at the Hutan Pendidikan Alam UKM, marks the return of the event after a hiatus since 2019. It emphasizes the importance of biological diversity within the oil palm ecosystem, combining theoretical knowledge with interactive educational tools to engage young minds.



### KNOWLEDGE EXCHANGE

UKM offers a variety of educational programs focused on ecosystems, aiming to enhance awareness and understanding of environmental conservation among students and the wider community. One notable initiative is the "Kem Ekologi IKIM-LESTARI 2023," which provided participants with hands-on learning experiences related to ecological concepts and practices. Held in collaboration with the Institute of Islamic Understanding Malaysia (IKIM) and the Institute for Environment and Development (LESTARI).







## 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 goal of SDG 16 is to promote peaceful and inclusive societies where the rule of law prevails, human rights are respected, and all individuals can access justice and participate in decision-making processes. This includes efforts to reduce violence in all its forms, strengthen institutions that uphold justice and the rule of law, and ensure that these institutions are transparent, accountable, and responsive to the needs of all people.

Peace, justice, and strong institutions are essential for sustainable development. They provide the foundation for economic prosperity, social cohesion, and environmental sustainability. Moreover, ensuring access to justice and building effective institutions can help prevent conflict, promote stability, and support the achievement of other Sustainable Development Goals.

SDG 16 encompasses a wide range of targets, including measures to reduce violence and prevent exploitation and abuse, promote the rule of law and equal access to justice, strengthen institutions at all levels, and increase public participation in decision-making processes.

UKM nurtures security, advocates human rights, and enhances university governance as the foundation for fairness and equality in overseeing university operations and fundamental procedures.

## UNIVERSITY GOVERNANCE MEASURES

## THE UNIVERSITY'S HIGHEST GOVERNING BODY

At Universiti Kebangsaan Malaysia (UKM), the Senate holds the highest representation on the university's governing body. The Senate, as a decision-making body, plays a pivotal role in shaping academic policies, strategic directions, and governance matters. The Senate consisted of:

- The Vice Chancellor who were the Chairman
- All Deputy Vice-Chancellors of UKM
- All Faculty Deans of Faculty and all Directors of UKM Campuses, Schools, Centres, Academies and Institutes
- Not more than twenty professors elected for a period of three years by all full-time professors and associate professors of the UKM
- Student Representatives

<b>SL.</b>	<b>NAMA</b>	<b>MEMBERSHIP</b>	<b>NOTES</b>
1.	Prof. Dato' Gs. Ts. Dr. Mohd. Ehsan bin Yusman	Vice-Chancellor	
2.	Prof. CMH Dr. Mohdamin bin Kassim	Deputy Vice-Chancellor Academic & International Affairs	
3.	Prof. Dato' Dr. Wan Kamal bin Magay	Deputy Vice-Chancellor Research & Innovation Affairs	
4.	Prof. Dato' Dr. Hassan @ Hassan bin Mohd Nordin	Deputy Vice-Chancellor Industry & Community Network Affairs	
5.	Prof. Madya Dr. Mohd Suzaimi bin Md Jazali	Deputy Vice-Chancellor Student & Alumni Affairs	
6.	Dato' Dr. Syed Kamarudin bin Saadukhalifa	Ex-Officio	Registrar
7.	Enock Mohd Auli bin Mohd Kasim	Ex-Officio	Bursary
8.	Prof. Madya Dr. Saibawi bin Md Saib	Ex-Officio	Legal Advisor
9.	Gik Ruhaya bin Umar	Ex-Officio	Chief Librarian
10.	Prof. Madya Dr. Roziah bt. Sukli & Md Sukli	Co-Opt	Centre for Quality Assurance
11.	Prof. Dr. Dr. Muhammad Razlan bin Yusop	Co-Opt	The Centre For Research And Innovation Unit
12.	Prof. Dr. Dr. Ahmad Kamal Adlin bin Mohd Isam	Co-Opt	Centre For Teaching and Curriculum Development, Institute University of Malaysia
13.	Dr. Siti Sarafudin (Pn) Prof. Dr. Roshida Rapihan	Co-Opt	PwC Vice-Chancellor Strategy and Corporate Development
14.	Prof. Dato' Dr. Haniffah bin Haniffa Rashid	Co-Opt	Putra Lumpur Campus Vice-Chancellor's Office
15.	Prof. Dr. Anis binti Anan	Dean	Faculty of Economics and Management
16.	Prof. Dr. Mohd bin Makmor Bakry	Dean	Faculty of Medicine
17.	Prof. Ir. Dr. Mohd Syahidan Ab Rahman	Dean	Faculty of Engineering and Built Environment
18.	Prof. Dr. Mohd Mahidin bin Awang	Dean	Faculty of Education
19.	Prof. Madya Dr. Ahmad Saman bin Long	Dean	Faculty of Islamic Studies
20.	Prof. Dr. Tuti Hengah bin Mohd Osman	Dean	Faculty of Dentistry
21.	Prof. Dr. Abdul Halim bin Abdul Gaffar	Dean	Faculty of Medicine
22.	Prof. CMH. Dr. Ishaq bin Ahmad	Dean	Faculty of Sciences and Technology
23.	Prof. Dr. Susana M. Shuhar	Dean	Faculty of Health Sciences
24.	Prof. Dr. Kadaridin bin Ayub	Dean	Faculty of Social Sciences and Humanities
25.	Prof. Madya Dr. Hartono Sufri bin Mohd Satar	Dean	Faculty of Information Science and Technology
26.	Prof. Madya Dr. Jaily @ Zaili bin Hassan	Dean	Faculty of Law
27.	Prof. Dr. Khairul Anwar @ Ishaq bin Masdur	Dean	Pusat Pengajian Gila Universiti
28.	Prof. Dr. Zafri Khan bin Muhammad Maibach	Director	UM-IGB Graduate School of Business
29.	Prof. Madya Dr. Azqain Bin Mutamad	Director	Institute for the Malay World and Civilization
30.	Prof. Madya Dr. Goh Choo Tin	Director	Institute for Environment and Development
31.	Prof. Madya Dr. Nor Azian binti Abdul Murad	Director	UM Medical Molecular Biology Institute
32.	Prof. Dr. Syarif Nadeem bin Baharum	Director	Institute of Systems Biology
33.	Prof. Madya Dr. Rubiah binti Abdul Kadir	Director	Institute of Visual Informatics
34.	Prof. Dato' Dr. Fariza bt. Md. Shams	Director	Institute of Islamic Heritage
35.	Prof. Ungu Dalia Dr. Shamsul Anis bin Rahubudin	Director	Institute of Ethical Studies
36.	Prof. Dr. Sufian bin Jauch	Director	Institute of the Malay World and Civilization
37.	Prof. Madya Dr. Ahmad Hilmi bin Md Zain	Director	Institute of Microengineering and Nanoelectronics
38.	Prof. Madya Dr. Mohd Adin bin Ibrahim	Director	Solar Energy Research Institute
39.	Prof. Madya Dr. Zain bin Saibawi	Director	Institute of Climate Change
40.	Prof. Ir. Dr. Sh. Kartini bin Kamardin	Director	Fuel Cell Institute

LIST OF SENATE MEMBERSHIPS (2023-2026)			
BIL.	NAMA	MEMBERSHIP	NOTES
41.	Prof. Dr. Dayang Anita binti Abdul Aziz	Director	Women Leadership Centre
42.	Prof. Madya Dr. Iman Abdul Rahman	Director	Center Fo Academic Management
43.	Prof. Madya Dr. Rorinda binti Yusof	Director	GENIUS@Pinter National Gifted Centre
44.	Prof. Madya Dr. Nioor Azuddin bin Yakob	Director	UGM-CESMED
45.	Prof. Datuk Dr. Muhammad bin Hussein	Director	Center for Shaping Advanced and Professional Education (JAKESchool)
46.	Prof. Dr. Zukelly bin Abdul Karim	Professor Membership	Faculty of Economics and Management
47.	Prof. Ir. Dr. Abu Bakar bin Sulong	Professor Membership	Faculty of Engineering and Built Environment
48.	Prof. Dr. Zainuddin bin Sagari	Professor Membership	Faculty of Engineering and Built Environment
49.	Prof. Dr. Kamisah binti Osman	Professor Membership	Faculty of Education
50.	Prof. Dr. Mohd. Nasran bin Mohamad	Professor Membership	Faculty of Islamic Studies
51.	Prof. Dr. Rohaya binti Megat Abdul Wahab	Professor Membership	Faculty of Dentistry
52.	Prof. Datuk Dr. Ismail bin Sagap	Professor Membership	Faculty of Medicine
53.	Prof. Dr. Ismail bin Mohd. Saiboon	Professor Membership	Faculty of Medicine
54.	Prof. Dr. Sharifa Ezat binti Wan Puteh	Professor Membership	Faculty of Medicine
55.	Prof. Dato' Dr. Razman bin Jarmin	Professor Membership	Faculty of Medicine
56.	Prof. Dr. Maslina binti Darus	Professor Membership	Faculty of Science and Technology
57.	Prof. Dr. Ismanizan bin Ismail	Professor Membership	Faculty of Science and Technology
58.	Prof. Ts. Dr. Norissan Kamel bin Othman	Professor Membership	Faculty of Science and Technology
59.	Prof. Dr. Bariah bt. Mohd. Ali	Professor Membership	Faculty of Health Sciences
60.	Prof. Ts. Dr. Kadir bin Arifin	Professor Membership	Faculty of Social Sciences and Humanities
61.	Prof. Dr. Rozmi bin Ismail	Professor Membership	Faculty of Social Sciences and Humanities
62.	Prof. Dr. Shahul Azman bin Mohd Noah	Professor Membership	Faculty of Information Science and Technology
63.	Prof. Dr. Ruza bin Sulaiman	Professor Membership	Institute of Visual Informatics
64.	Prof. Dr. Mohd Fainuz bin Md. Salleh	Professor Membership	UKM-GB Graduate School of Business
65.	Prof. Dr. Kartini binti Abo Talib Khalif	Professor Membership	Institute of Ethical Studies
66.	Saudara Badrul Ali Naquuddin bin Badruzaman	Student Representative	KMUJM

## List of Senate Membership in 2023

<https://www.ukm.my/akademik/ahli-senat-2023-2026/>



**PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS**

## STUDENTS' UNION



Kesatuan Mahasiswa UKM (KMUUKM) is a student-led body that represents the collective voice of students at UKM. This independent students' union advocates for students' rights, welfare, and interests, engaging with university administration on issues affecting the student community.

In 2023, KMUUKM's leadership line led by Badrul Alif Naquiddin Badrulzaman as President, was given the mandate after winning the Campus Election held in the same year.

KMUUKM has student representatives on key university committees and governing bodies, including the Senate. Through these platforms, KMUUKM provides input on policies affecting student life, academic programs, student welfare, and campus services.







## PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

USUL	HURAIAN USUL	PENCADANG	STATUS
Pengecualian kuliah bagi hari peristiw yang melibatkan mahasiswa beragama Katolik	• Pengecualian kuliah bagi Hari Krismas iaitu pada <b>26 Disember 2023 (Selasa)</b>	Penwakilan Agama Katolik UKM	Diluluskan
Pengecualian kuliah bagi hari peristiw yang melibatkan mahasiswa Sabah	• Pengecualian kuliah bagi Hari Jumaat Agung atau dikenali sebagai Good Friday pada <b>29 Mac 2024 (Jumaat)</b> • Pengecualian kuliah bagi Hari Kaamatan kepada mahasiswa Sabah pada <b>30 Mei 2024 (Khamis)</b> hingga <b>31 Mei 2024 (Jumaat)</b>	Persatuan Mahasiswa Sabah UKM	Diluluskan hanya melibatkan penganut agama sahaja

KMUKM 2022/2023 
 @krmukm1970 
 Kesatuan Mahasiswa UKM 2022/23

## GOVERNANCE INPUT

In 2023, KMUKM brought forth a proposal and recommendations from the UKM Catholic Student Representatives regarding religious holiday leave to the university administration. One of the key proposals was the exemption from lectures on December 26, 2023, the day after Christmas, to accommodate Catholic students. This proposal, which was elevated to the highest university level, was successfully approved, allowing Catholic students the opportunity to fully celebrate their religious festivities.

## SUPPORT FOR STUDENTS

In 2023, KMUKM provided financial assistance of RM1800 equivalent to USD 410.93 to the MyAgrosis Club to support the Urban Agrotech Entrepreneur Project at the Taman Botani site. Among the crops cultivated were rock melons using hydroponic methods, eggplants through fertigation, and oyster mushrooms. This project required substantial funding to be realized. With this financial support, the project's development was able to proceed smoothly.


















## PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

### SOCIAL ACTIVITIES

One of the standout events was the 51st UKM Convocation Carnival, held from 24th to 30th November, 2023. Led by KMuKM, also known as the Convocation Secretariat, the carnival attracted an extraordinary turnout of approximately 10,000 attendees, including students, alumni, UKM staff, and the local community. A variety of activities enlivened the entire duration of the carnival, including the vibrant Neon Run Night, engaging TikTok competitions, cultural performances, and spiritual programs such as Malam Rindu Ya Rasulullah and Daie Siswa. Each event brought unique energy and depth, offering something for everyone while celebrating both creativity and cultural heritage.



### BOARD OF DIRECTORS OF UKM

Lembaga Pengarah UKM							
Keahlian							
							
Prof. Emeritus Dato' Dr. Mohamad Abd. Razak Pengerusi Lembaga Pengarah UKM	Prof. Dato' Dr. T. S. Dr. Mohd. Shuhaimi H. Yusoff Naib Pengerusi Universiti Kebangsaan Malaysia	Prof. Dr. Adinda Azman Wakil Kementerian Pendidikan Tinggi Malaysia	Mrs. Huznah Ali Wakil Kementerian Kewangan Malaysia	Prof. Emeritus Dato' Dr. Maridhi Sirat Wakil Sektor Swasta	Dato' Yeow Wah Chin Wakil Alumni Universiti	Prof. Dr. Muhammad Tejudin Haji Muhammad Razali Wakil Berpengalaman dan Berpengalaman	Sn. Ahmad Wazir Adnan Ahli Ganti Kementerian Pendidikan Tinggi Malaysia
							
Dato' Dr. Mohd Zaidi Md. Zaini Wakil Masyarakat	Prof. Dr. Bariah Mohd Ali Wakil Senat	Dato' Johari Kadir Wakil Sektor Swasta	Dato' Ahmad Shafiqin Ahmad Shafie Wakil Sektor Swasta	En. Mohammad Khairul Nazri Ghazali Wakil Ganti Kementerian Kewangan Malaysia			





## PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

### WORKING WITH GOVERNMENT



**Associate Professor Dr. Sharina binti Abdul Halim** is the Head of the Cultural Heritage and Social Sustainability Program at the Geopark Research Centre (PPG), Institute for Environment and Development (LESTARI), UKM. She plays a vital role in formulating strategies and initiatives to advance geoparks in Malaysia by using her expertise as a researcher in the field of environmental sociology and cultural heritage conservation

**Dr. Nurhafilah binti Musa** has made significant contributions to the formulation of the Muqarrarabun Disability Policy in Kelantan. With her expertise in constitutional law, Islamic law, and federalism, she was appointed as the Lead Researcher in the drafting of this policy. The policy aims to outline and provide comprehensive guidelines and development modules for persons with disabilities in Kelantan, based on the principles of the Developing with Islam Policy, and to enhance one of the sub-policy agendas within the Welfare and Well-being of the People of Kelantan Policy.



**Lt. Col. Assoc. Prof. Ts. Ir. Dr. Nur Izzi Md Yusoff** was appointed as a member of the Program Advisory Committee at Port Dickson Polytechnic from January 2023 to December 2024. In this role, he plays a crucial part in providing strategic guidance to enhance the quality of academic programs offered. His responsibilities include advising on curriculum development to ensure alignment with current industry needs and establishing connections between the polytechnic and industry sectors, thus ensuring that graduates possess relevant skills that meet job market demands





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**Dr. Rospidah Ghazali**, as Head of the Center for Environmental, Economic, and Social Sustainability Research at the Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), has been instrumental in shaping policies within the Working Committee for the National Food Security Blueprint (KBSMN) under the Ministry of Agriculture and Food Security. Leveraging her expertise in developmental economics, agriculture, and food security, she has contributed significantly to drafting strategies and action plans to fortify the nation's food security framework.

**Gs. Dr. Nuriah Abd Majid**, a research fellow at the Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), has played a crucial role in shaping policies for sustainable forest management in Malaysia. As part of her involvement with the Department of Forestry Peninsular Malaysia, she participated in a meeting with consultants on a study assessing the costs of forest production within Permanent Forest Reserves in Peninsular Malaysia.



**Associate Professor Dr. Sarah Abdul Ghani Aziz**, a Senior Fellow at the Institute for Environment and Development (LESTARI), Universiti Kebangsaan Malaysia (UKM), has been instrumental in shaping policies related to coastal resilience and climate change adaptation in Malaysia. As a participant in the refinement discussion for the Compendium on Research Impact and Response to Sea Level Rise on National Coastal Security and Assets, organized by the National Hydraulic Research Institute of Malaysia (NAHRIM), she has leveraged her expertise in environmental law and sustainable development to influence strategies that address the challenges posed by rising sea levels.



## PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS



**Professor Dr. Goh Choo Ta**, Director of the Institute for Environment and Development (LESTARI) at Universiti Kebangsaan Malaysia (UKM), has been pivotal in shaping policies for environmental health and chemical safety in Malaysia. His significant role in the 9th National Environmental Health Action Plan (NEHAP) Conference, organized by the Ministry of Health Malaysia, highlights his influence as a policymaker in addressing critical environmental health issues, particularly in hazardous chemical management.

**Professor Datuk A. Rahman bin A. Jamal** as a leader of The Malaysian Cohort (TMC) project from the Faculty of Medicine. TMC is a long-term research project involving more than 100,000 participants aiming to identify risk factors for chronic diseases such as cancer and diabetes, and to discover biomarkers enabling better detection and prognostication of these diseases.



**Prof. Ir. Dr. Rozaimah Siti Rozaimah Binti Sheikh Abdullah**, Faculty of Engineering & Built Environment led the project Green Pre-Treatment System for Solid Recovery in Aquaculture Effluent, funded by the Ministry of Higher Education (KPT). , the project seeks to reduce environmental impact by improving solid waste management in aquaculture



## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

SDG 17, or Sustainable Development Goal 17, emphasizes the importance of global partnership and cooperation in achieving the other 16 Sustainable Development Goals. It is one of the 17 Sustainable Development Goals established by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development.

The goal of SDG 17 is to strengthen the means of implementation and revitalize the global partnership for sustainable development. This includes promoting collaboration between governments, businesses, civil society organizations, and other stakeholders at the local, national, and international levels.

Partnerships are crucial for mobilizing resources, sharing knowledge and expertise, and accelerating progress towards sustainable development goals. By working together, countries can leverage each other's strengths and resources to address common challenges such as poverty, inequality, climate change, and environmental degradation.

SDG 17 encompasses a wide range of targets, including measures to enhance international cooperation in areas such as finance, technology transfer, capacity-building, and trade, promote multi-stakeholder partnerships that involve governments, businesses, civil society, and the private sector, and strengthen the effectiveness of development assistance and cooperation.

UKM collaboratively advances towards a sustainable future for everyone by partnering with diverse stakeholders, exchanging knowledge, and participating in collaborative research efforts.





## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

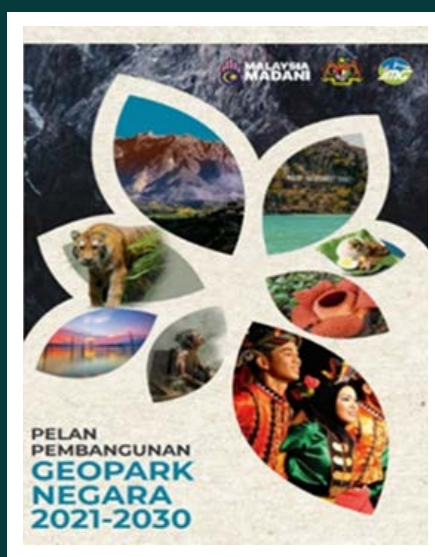
### RELATIONSHIPS TO SUPPORT THE GOALS

UKM worked closely with ministries and the Malaysian government to develop SDG policies, which involved identifying problems, challenges, and formulating corresponding policies and strategies.



#### IMPLEMENTATION OF THE NATIONAL GEOPARK

In 2023, UKM collaborated with the Ministry of natural resources and environment Malaysia to develop related policies through developing and implementing national geopark policies.



#### NATIONAL GEOPARK DEVELOPMENT PLAN 2021-2030

UKM has been instrumental in the development and implementation of Malaysia's National Geopark Development Plan 2021-2030 (PPGN 2021-2030). This strategic plan aims to guide stakeholders, including federal and state agencies, in the systematic development of geoparks, with the goal of achieving national or global recognition.

In 2023, Associate Prof. Dr. Sharina and Associate Prof. Dr. Tanot Unjah were part of development of this policy who are involved directly in Geopark Development and Management activities at the National and UNESCO Global Geopark levels



## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT



### MUQARRABUN KELANTAN DISABLED PERSONS POLICY.

The policy was drafted as an expression of commitment that relevant parties in the effort to develop potential-based and self-ability of individuals with disabilities



### STRATEGIC PLAN FOR THE DIGITIZATION OF THE REGISTRAR OF THE FEDERAL COURT OF MALAYSIA 2021-2025.

Development of PSP PKPMP 2021-2025 implemented based on the needs of the ICT ecosystem that includes four domains (Business, Data and applications, ICT infrastructure and security, Governance and ICT capabilities)

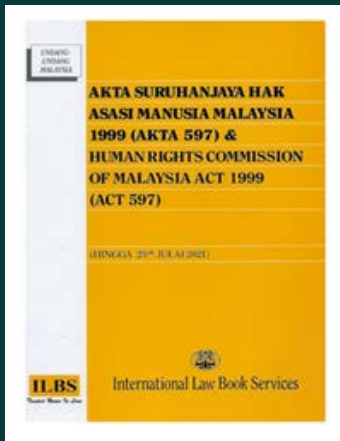


### MADANI MALAYSIA STRATEGIC PLAN.

MADANI was inspired based on the concept of willingness to accept change, taking into account the suggestions of all levels of society with the desire for recovery through substantive reforms for the sake of a more advanced and prosperous Malaysia.



## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT



### AMENDMENT TO THE MALAYSIAN HUMAN RIGHTS COMMISSION (SUHAKAM) ACT.



### NATIONAL NUCLEAR TECHNOLOGY POLICY 2030

This policy is intended to set a strategic direction for development nuclear technology until the year 2030. This is in line with national goals in Science, Technology and Innovation Policy Country (DSTIN) 2021-2030 to become a high technology country.



### ACTION PLAN FOR ENHANCING MALAY AS THE LANGUAGE OF KNOWLEDGE IN PUBLIC HIGHER EDUCATION INSTITUTIONS 2023-2030.

Objectives of the Action Plan to Dignify the Malay Language as a Language of Knowledge in IPTA 2023-2030.

- Cultivating the Malay language as a language of knowledge
- Create graduates who are proficient in the Malay language
- Realizing the Malay language as a channel for national development
- Strengthen the role of the Malay language as a source of reference





## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

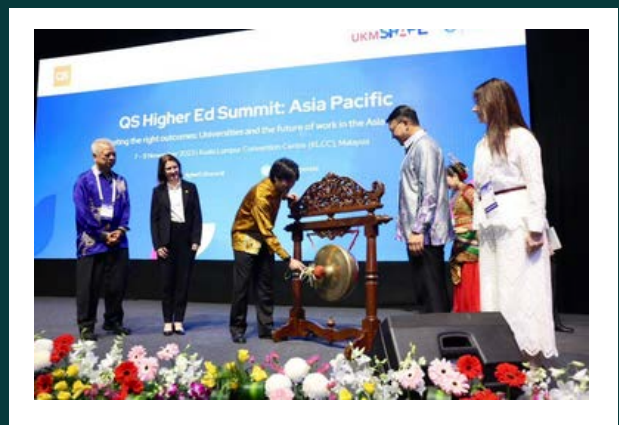


### CROSS SECTORAL DIALOGUE ABOUT SDGS

Universiti Kebangsaan Malaysia (UKM) is proud to host the 29th International Sustainable Development Research Society (ISDRS) Conference on July 11-13, 2023 with the theme "Half-way through Agenda 2030: Assessing the 5Ps of SDGs (people, planet, prosperity, peace and partnership)," this conference reaffirms

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## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### GLOBAL HEALTH CONGRESS 2023 AT THE UNIVERSITY OF TOKYO, JAPAN

28 November 2023-UKM is pleased to receive an invitation as a 'guest speaker' at the Global Health Congress 2023 which will be held at the University of Tokyo, Japan on 25 November 2023



### NATIONAL INTANGIBLE CULTURAL HERITAGE CONFERENCE 2023 GATHERING OF CULTURAL HERITAGE SCHOLARS



3 September 2023 - The National Intangible Cultural Heritage Conference 2023 held at the Tun Abdul Razak Chancellor's Hall (DECTAR), Universiti Kebangsaan Malaysia (UKM) became a platform for scientists to share expertise between government agencies, academics, activists and communities to create a line best practice guidelines and recommendations for the protection of intangible cultural heritage as appropriate.



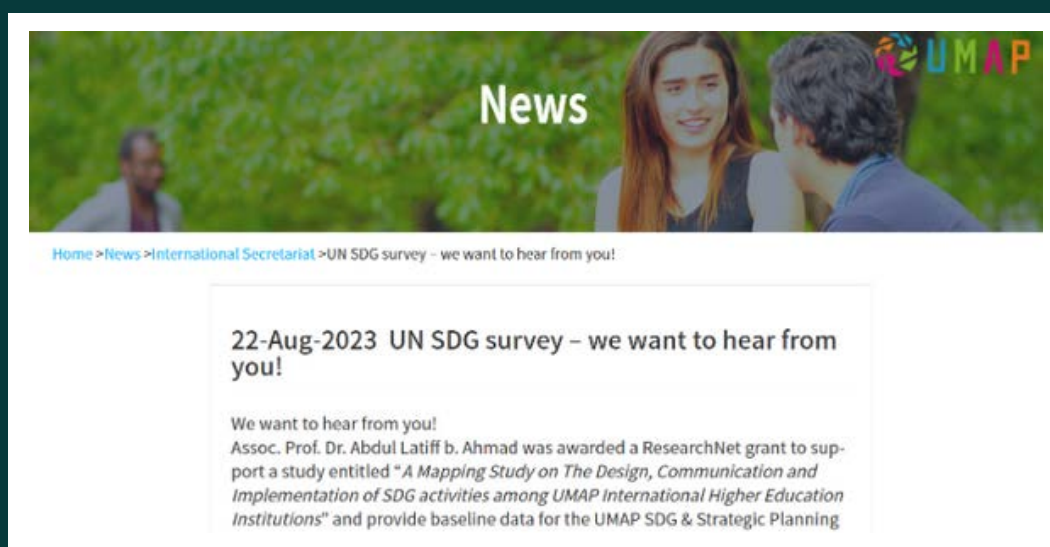
## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### INTERNATIONAL CONFERENCE ON TIMBER CERTIFICATION: EXPLORING FUTURE FRONTIERS



The Malaysian Timber Certification Council (MTCC) and the Institute for Environment and Development, (LESTARI) Universiti Kebangsaan Malaysia, has been a co-host the International Conference on Timber Certification: Exploring Future Frontiers on 15 – 16 March 2023 at Sunway Putra Hotel Kuala Lumpur, together with the Malaysian Timber Council (MTC), the Malaysian Timber Industry Board (MTIB) as co-organisers

### A MAPPING STUDY ON THE DESIGN COMMUNICATION AND IMPLEMENTATION OF SDG ACTIVITIES AMONG UMAP INTERNATIONAL HIGHER EDUCATION INSTITUTION



University Mobility in Asia and the Pacific (UMAP) is a consortium of Higher Education Institutions and partners, collaborating to increase opportunities for study abroad across the Asia Pacific region through a variety of short and long-term in-person and virtual exchange opportunities, as well as Collaborative Online International Learning (COIL) experiences. Assoc. Prof. Dr. Abdul Latiff b. Ahmad was awarded a ResearchNet grant to support a study entitled “A Mapping Study on The Design, Communication and Implementation of SDG Activities among UMAP International Higher Education Institutions” and provide baseline data for the UMAP SDG & Strategic Planning Taskforce.





## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### U-INSPIRE MALAYSIA @UKM

U-Inspire Malaysia @ UKM is a youth-led initiative hosted at Universiti Kebangsaan Malaysia (UKM) that focuses on engaging young professionals in disaster risk reduction (DRR) and climate change action. Part of a broader U-Inspire network across the Asia-Pacific region, U-Inspire Malaysia is connected with SEADPRI-UKM (Southeast Asia Disaster Prevention Research Institute) and supported by organizations such as the National Disaster Management Agency (NADMA) and the Malaysian National Commission for UNESCO.



### THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)

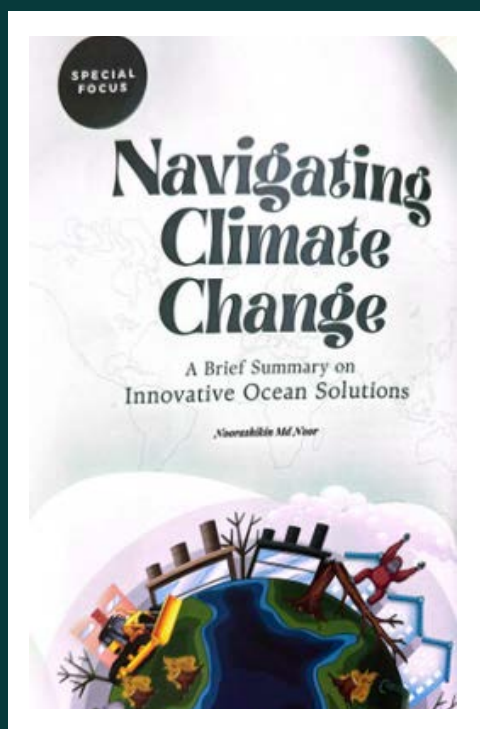
Dr. Joy Jacqueline Pereira serves as the Co-Chair of Working Group III of the Intergovernmental Panel on Climate Change (IPCC). In the Sixth Assessment Report, she was the Vice-Chair of Working Group II, which focuses on impacts, adaptation, and vulnerabilities. She has previously held significant roles, including Coordinating Lead Author and Lead Author, for various IPCC reports.





## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### MIMA BULLETIN: NAVIGATING CLIMATE CHANGE BY TS. DR. NOORASHIKIN MD NOOR



Ts. Dr. Noorashikin Md Noor from Earth Observation Center, Institute of Climate Change, UKM, is one of the publishers of Navigating Climate Change in MIMA Bulletin (MIMA Bulletin Vol 32 2023) to review comparative approaches and develop international best practice on tackling the SDGs. The MIMA Bulletin is a publication by the Maritime Institute of Malaysia (MIMA) that covers a wide array of maritime and ocean-related topics, relevant policies, and regional maritime developments. It typically provides insights into maritime

### MIMA BULLETIN: NAVIGATING CLIMATE CHANGE BY TS. DR. NOORASHIKIN MD NOOR

APEC Project Database	
Project Title	APEC Climate Economics Cross-Border Educational Course (CECC)
Project Number	492-03-2023A
Project Type	Standard
Project Year	2023
Project Session	Session 1
Project Status	Completed Project
Proposing Economy(ies)	Malaysia
Co-Sponsoring Economies	Chile; China; Indonesia; New Zealand; Russia; Chinese Taipei
Expected Start Date	01/10/2023
Expected Completion Date	30/09/2024
Project Proponent Name 1	Nurfaradilla Mohamad Nasri
Job Title 1	Associate Professor Dr
Organization 1	Universiti Kebangsaan Malaysia
Postal Address 1	Not Applicable
Telephone 1	(60) 189864837
Fax 1	Not Applicable
Email 1	nurfaradilla@ukm.edu.my

UKM has made a research collaboration with Asia Pacific Economic Cooperation (APEC) on APEC Climate Economics Cross-Border Educational Course (CECC). This project is led by Associate Professor Dr Nurfaradilla Mohamad Nasri from the Faculty of Education, UKM. The objective of this project is to improve the capacity for APEC economies to implement inclusive, sustainable and quality climate economics cross-border education, in order to strengthen education cooperation in the Asia-Pacific region.



## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### HEALTHCOMM UKM



HEALTHCOMM UKM x UNICEF C4D CENTRE is an initiative that is proudly presented by Faculty of Social Science & Humanities, UKM and The United Nations Children's Fund (UNICEF) as a collaborative effort to advocate and empower our health ecosystem while supporting communities through applying awareness and inclusiveness in our pursuit. UKM committed to establishing HEALTHCOMM as a leader in health communication research, with a particular focus on policy and behavioral change.

### RESEARCH COLLABORATION WITH ASIA PACIFIC ECONOMIC COOPERATION (APEC)

APEC Project Database			
Powered by Microsoft			
<b>Project Name</b> APEC Climate Economics Cross-Border Educational Course (CECC)	<b>Project Title</b> APEC Climate Economics Cross-Border Educational Course (CECC)	<b>Project Year</b> 2023	<b>Project Status</b> Completed Project
<b>Project Number</b> 002-03-2023A	<b>Project Type</b> Standard	<b>Project Location</b> Semester 1	
<b>Proposing Economy(ies)</b> Malaysia	<b>Co-Sponsoring Economies</b> Chile; China; Indonesia; New Zealand; Russia; Chinese Taipei		
<b>Expected Start Date</b> 01/10/2023	<b>Expected Completion Date</b> 30/09/2024		
<b>Project Proponent Name 1</b> Nurfaradilla Mohamad Nasri	<b>Job Title 1</b> Associate Professor Dr		
<b>Organization 1</b> Universiti Kebangsaan Malaysia	<b>Postal Address 1</b> Not Applicable		
<b>Telephone 1</b> (60) 189864837	<b>Fax 1</b> Not Applicable		
<b>Email 1</b> nurfaradilla@ukm.edu.my			

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## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### RESEARCH PROGRAM ON 'INITIATIVE FOR PRECISION MEDICINE IN PEDIATRIC CANCER THERAPY (IMPACT): IMPROVING SURVIVAL AND MINIMIZING LATE EFFECTS'.



**Initiative for Precision Medicine in Paediatric Cancer Therapy (IMPACT): Improving Paediatric Cancer Survival Rate**


Program funding from Yayasan Petronas

**A Rahman A Jamal (MD, MRCP, PhD, GDHM)**  
**Hamidah Alias (MD, MMed)**  
 Hospital Canselor Tuanku Muhriz  
 Hospital Pagar Karah-Karah UKM  
 Faculty of Medicine UKM  
 UKM Medical Molecular Biology Institute (UMBI)



Universiti Kebangsaan Malaysia (UKM) together with Yayasan Petronas held an exchange of Memorandum of Agreement (MoA) to improve the survival rate for pediatric cancer patients at Chancellor Tuanku Muhriz Hospital (HCTM)

### SIME DARBY FOUNDATION COLLABORATION WITH UKM-YSD CHAIR



**Collaboration**

**Collaborative Research**

The research will be conducted collaboratively, not only among UKM and Sime Darby researchers, but with researchers from local research institutes and universities such as the Malaysia Agricultural Research and Development Institute (MARDI), Universiti Teknologi Malaysia (UTM), University of Nottingham Malaysia and Universiti Malaysia Pahang (UMP) and international institutions, such as the Wageningen UR, in the Netherlands, an institute well known for research in converting biomass to valuable products. This collaboration creates a consortium of Malaysian intellectuals with global outlooks.

**Roles of UKM and Sime Darby**

Both UKM and Sime Darby work collaboratively as a team where:

**UKM** provides intellectual and theoretical inputs in the relevant areas of research, national and international networks of researchers and research funds, fundamental research infrastructure and inflow of students and researchers for capacity building.

**Sime Darby**, through Yayasan Sime Darby and Sime Darby Plantations provides funds for the Chair and R&D activities, direction of research relevant to the industry, industrial R&D experience and networks, infrastructure and expertise for commercialization.

Collaborative research initiative between Universiti Kebangsaan Malaysia (UKM) and Sime Darby under the UKM-YSD Chair for Sustainable Development. UKM provides intellectual and theoretical contributions in research.



## STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALISE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

### FOUNDATION OF KURSI YAYASAN TUN ISMAIL MOHAMED ALI (YTI-UKM)



The Memorandum of Agreement between Yayasan Tun Ismail Mohamed Ali Berdaftar and Universiti Kebangsaan Malaysia was made on December 18th, 2000. The establishment of the YTI Distinguished Chair in UKM, was aimed to enrich the treasure of research and publications in the fields of: investment analysis, investment performance, fund management, demographic analysis of investors, financial and investment planning analysis, which were for the benefit of national development in general.

### KEDAH STATE SUSTAINABLE GENERATION PILOT LPIE5R PROJECT



A research group LPIE5R (Lowering Plastic Impact on the Environment via 5R Module (Refuse, Reduce, Reuse, Recycle and Recover)) from Universiti Kebangsaan Malaysia (UKM) has conducted a program to encourage recycling with communities in the state of Kedah since the year 2019 mainly involves students and teachers from secondary schools.



# UKM

## SUSTAINABLE DEVELOPMENT GOALS



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