



U*ni*MAP

**UNIVERSITI
MALAYSIA
PERLIS**

Sustainability Report 2023



Knowledge, Sincerity, Excellence
SUSTAINABILITY
OUR WAY OF LIFE



U MAP
UNIVERSITI MALAYSIA PERLIS

U MAP

POS KESELAMATAN
UNIVERSITI MALAYSIA PERLIS
MESRA BERINTEGRITI



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Short Message from Vice Chancellor



PROF. DATO' TS. DR. ZALIMAN BIN SAULI
VICE CHANCELLOR
UNIVERSITI MALAYSIA PERLIS (UniMAP)

The Times Higher Education (THE) Global Impact Rankings (GIR) could not have come at a better time for UniMAP. Our participation in the rankings was underscored by several factors, most importantly is the university's aspiration to not only contribute to global sustainability, but also to play a key role in doing so, as fitting one of the functions of a university. When we decided to participate in the rankings, we knew that operationally, there would be a few implications.

Firstly, was the matter of bringing together all initiatives that were already running and ensuring they address the sustainability agenda.

Secondly, was the need to be mindful, with regard to our processes, on how we use our resources as well as to consider how our decisions, policies and actions may compromise priorities spelt out in the sustainable development goals, and therefore to act upon these in a structured and calculated way.

Thirdly, and perhaps more foundational, was the need to ensure that there is collegiality and togetherness in awareness and action across all players in the university ecosystem of the idea of sustainability in its all-encompassing concept – not because we are participating in the rankings - but because it is simply the right and appropriate thing to do. Alhamdulillah, UniMAP is on the right track thus far, though we realise there is still much more that we can and need to do. We have been able to achieve some commendable outcomes through well designed initiatives, and indirectly in some cases, which are detailed in this report.

As an institution of higher learning, UniMAP understands that there is no organisation more powerful than a university which can propel the sustainability agenda to be taken seriously and with rigour by the community. We understand that actions we take at the university are not for the benefit of the university alone but may and will reverberate through the folds of society, influencing its members to embrace the idea of a better future for us and generations to come and thus take suitable actions to reflect the understanding. It is our ardent hope that innovations that result from the creativity of our administration and core businesses of the university, and those that we co-create with our stakeholders from various segments of society will represent a lasting UniMAP footprint towards a better future.



CANSITORI TUANKU SYED SIRAJUDDIN

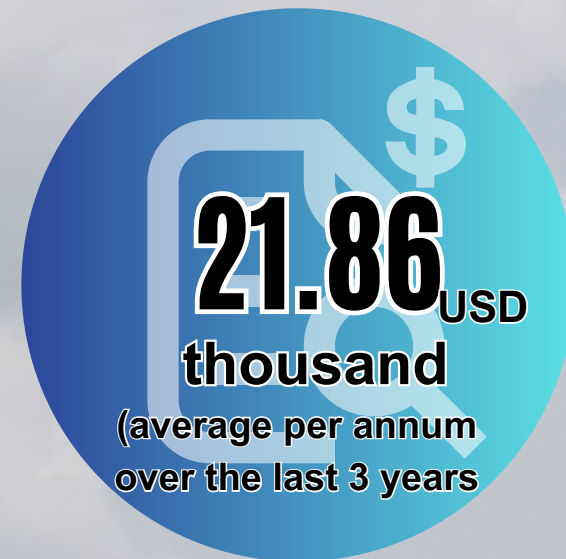
AT A GLANCE

Total Recycle Waste

Water Usage

Energy Usage

Research Funds

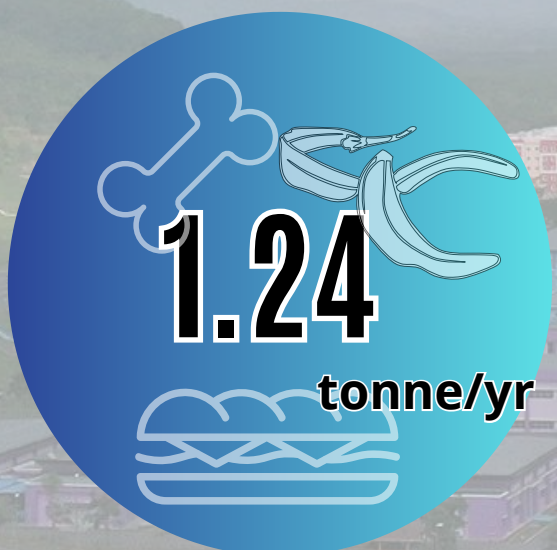


Recycled Food Waste

Reduction of Plastic Used

Courses Related to
Sustainability

Sustainability
Events

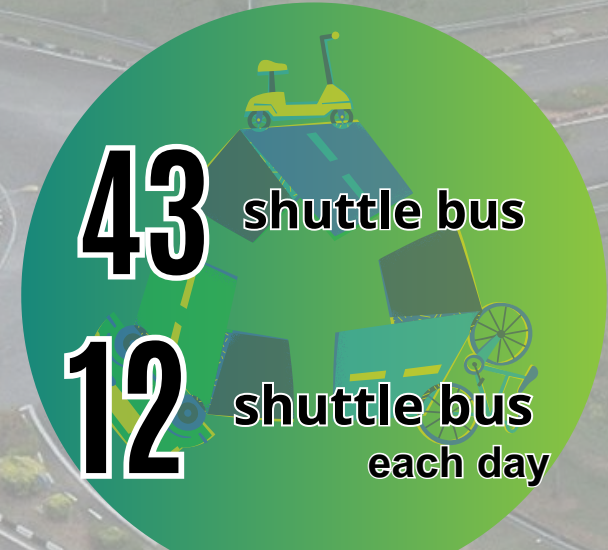
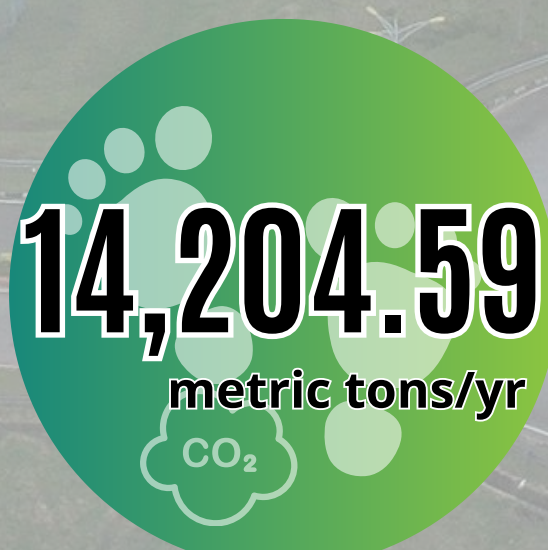


Sustainability Efforts
Budget

Carbon Footprint
(CO emission)

The ratio of open
space to total area

Sustainable
Transportation



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SDG REPORT

2023



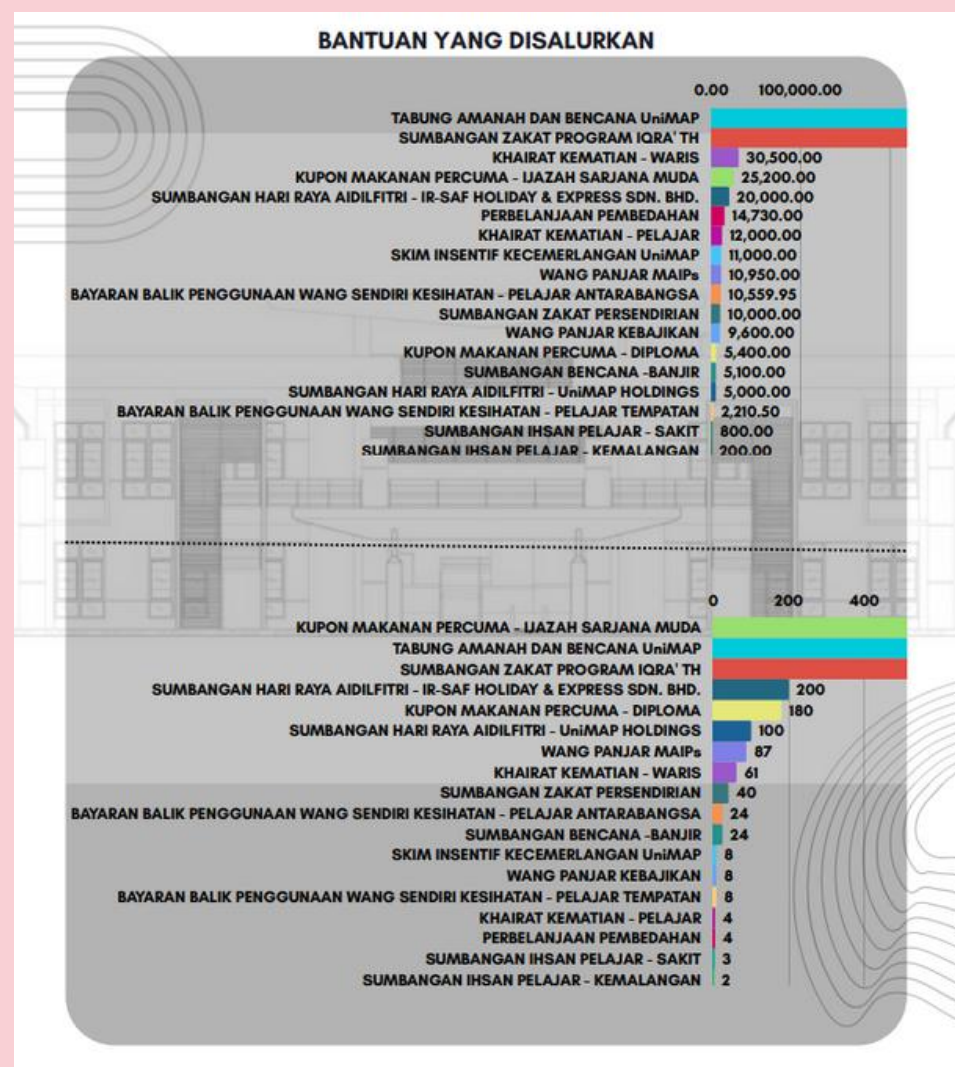


SDG 1: NO POVERTY

To end poverty in all its forms everywhere

Financial Aid

Types of financial aid provided to students by the Department of Student Affairs (JHEP). JHEP manages the welfare, training, and guidance of students to improve individual performance and development. To ensure bottom financial quintile students' success, a range of anti-poverty programs are provided throughout the year with support from the government, industry, and NGOs.



University Anti-Poverty Programs

SULUNG 2.0 PROGRAM

Handing over the Offer Letter for the SULUNG 2.0 Student Development Program to 33 UniMAP students at Tuanku Tengku Fauziah's Residential College, UniMAP. The SULUNG 2.0 program, which is a continuation of SULUNG 1.0, is one of the Ministry of Higher Education's (KPT) bursary initiatives to help the eldest child of B40 families continue their studies with full funding of tuition fees.



ZIARAH KASIH UNiMAP-KPT DAN YKS

UniMAP offer admission to one of the student who is a hearing impaired person who did not get a place at university in Bertam Perdana, Bertam, Penang. UniMAP gives an opportunity to the students to continue their studies after completing the Diploma. An unexpected coincidence, his younger brother is also a second year student at UniMAP. Yayasan Kebajikan Siswa (YKS) also provides assistance in preparing for university.



MISI PRIHATIN PASCA BANJIR IBOI

UniMAP Volunteer Club have held clean-up activities "MISI PRIHATIN PASCA BANJIR IBOI". The mission was organized by Pertubuhan Aspirasi Prihatin Malaysia jointly organized by IMPACT MALAYSIA and Yayasan Syukur Malaysia located in Iboi Kupang, Baling, Kedah. A total of 20 UniMAP Volunteers are involved in this mission.



Community Anti-Poverty Programs

An Innovation Project for Mushroom Block Production has been launched to guarantee the whole ecology of The Mushroom Cultivation Project Using an Optimal Humidity System is intact. This project intends to boost the output of mushroom blocks, create healthy rivalry among mushroom block manufacturers, and give more affordable rates. This project also allows the production of varied qualities of mushroom blocks. Furthermore, this project has the potential to provide job opportunities for target groups, particularly in the fields of block production, cultivation, processing, and marketing of mushroom-based goods. Furthermore, this initiative has the potential to benefit the local community's economic and social growth.



Sawdust is gathered to blend with other components



Processed sawdust is inserted in block plastic



Mushroom blocks are compacted and sealed



Process for steaming the mushroom block



Process for inserting mushroom seeds



The incubation process for mushroom blocks



SDG 2: Zero Hunger

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

Sustainable Development Goals for Zero Hunger:

- 100% reduction of plastic straws and polystyrene use.
- 100% Halal foods sold throughout the whole campus.
- 100% free meals and coffee every Friday to students and staff.
- 80% of food supplies are purchased from the local community in Perlis, Malaysia (30 km radius).
- 20% of food supplies are purchased within Malaysia.
- Offer Dapur Food Bank Siswa and Free Food Coupons to students every semester.
- All cafés offer affordable menu for students, at an average of RM3.50 per nutritious-balanced meal.
- All cafés are required to prepare vegetable dishes for students and staff.

Research Centers, Program and Department

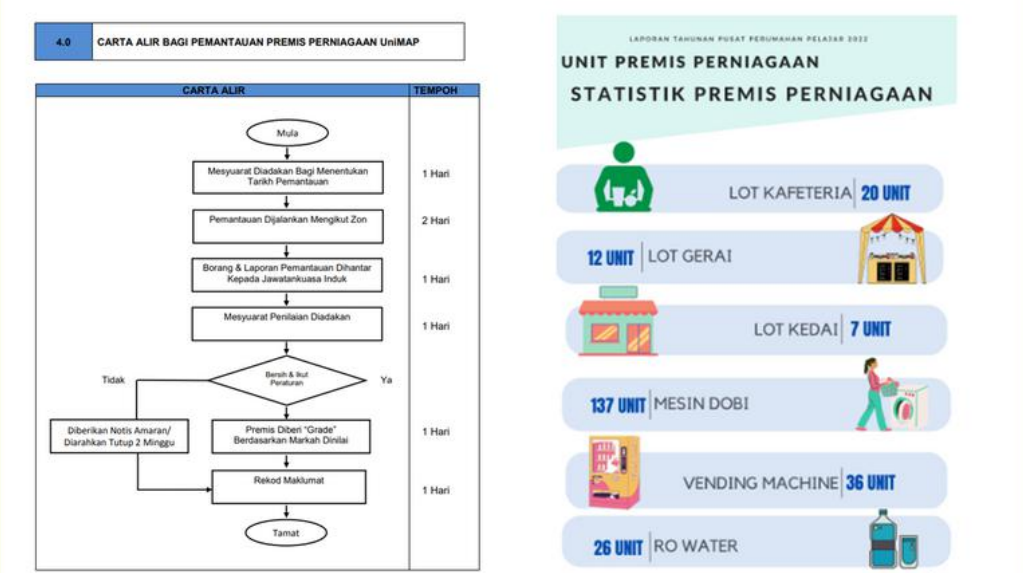
Academic programs offered:

- I. Bachelor of Chemical Engineering Technology (Food Technology) with Honours
- II. Bachelor of Agricultural Engineering with Honours
- III. Bachelor of Mechanical Engineering Technology (Agriculture System) with Honours

The research centers:

- I. Institute of Sustainable Agrotechnology (INSAT)
- II. Centre of Excellence for Biomass Utilization (CoEBU)

Department Business Premises (UniMAP) Committee and Unit Public Health ensures sufficient quantity of affordable and nutritious food for students and staff on campus.



Students and Staff Hunger Interventions

UniMAP offers Menu Siswa Rahmah food menu packages in all residential college cafeterias for as low as RM3.50 for over 10,800 students to enjoy.



The Dapur FoodBank Siswa@UniMAP program, initiated by the Department of Student Affairs (JHEP) of UniMAP, was held for the second time in 2023. A total of 300 food packages were distributed to students in need. This program also received assistance from the HEPA community, including PUSKA, PPA, PKBU, and the Office of the Deputy Vice Chancellor of HEPA, who collaborated to cook and prepare the meals.

Dapur FoodBankSiswa@UniMAP



The Dapur Food Bank Siswa UniMAP initiative from 'Food Bank Siswa' program organized by the Perlis State KPDNHEP Office, in strong collaboration with contributors and strategic partners. These include the TuanKu Syed Putra Foundation, NFS AMG Trading, Petronas Dagangan Berhad, and Gardenia Bakeries Sdn. Bhd.

Dapur Food Bank Siswa UniMAP



National Hunger

Agricultural Robot Technology Transfer Program

The free knowledge transfer program :

- i) Agricultural robot demonstration: Remote Control Lawn Mower
- ii) Including DC Motor technology, method of identifying machine problems
- iii) Location : Cabana Hill, Abi, Perlis
- iv) Focus to Harumanis farmer in Abi and nearby. This hands-on course is organized together with the Koperasi Harumanis Perlis (KOHAMAS) and several owners of farmers around the state of Perlis.



Tube Well System

The Bangun Subuh Empire company uses the INSAT aquaculture facility (tube well facility) to clean the Affordable Recirculating Aquaculture System (RAS BM600) before starting a fish farming project.



Sustainable food purchases

To fulfill the local sustainability agenda, UniMAP cafeteria operators. It is recommended to supply nutritious food and offer a reasonable price reasonable in addition to obtaining raw material supplies from suppliers local within 30km.

NO	LOKASI	WILAYAH PERSEKUTUAN	STATUS
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SDG 3 : Good Health and Well-Being

Ensure healthy lives and promote well-being for all at all ages

Collaborations and Health Services

NATIONAL COLLABORATION

PROGRAMME CORPORATE SOCIAL INITIATIVES (CSI) INSTITUT JANTUNG NEGARA (IJN) COLLABORATE WITH UNIVERSITI MALAYSIA PERLIS (UniMAP)

University Health Centre has collaborated with Institut Jantung Negara (IJN) To Make The Corporate Social Initiatives (CSI) Programme successful.

This program provides free health screening to all participants. The participants include the local community, students and staff.



USR PROGRAM:

University Health Center Has Organized A Program Called Hepta-Heliks @ Kawasan Rukun Tetangga (KRT) Parlimen Arau On March 19th, 2023. We provide health check ups such as blood pressure, blood sugar level, and consultation by medical doctors. The participants are 47 people from local community.



PKU has organized a program in conjunction with Women's Day :

- To provide education and knowledge related to women's reproductive health care
- Increase knowledge about sex education and the prevention of sexual behavior before marriage
- Disseminate information to UniMAP citizens about prevalent sexually transmitted diseases, how diseases spread as well as the prevention and detection of more diseases early as well as effective treatment methods.
- This program also discusses "gender equality" which means equal rights, responsibilities and equal opportunities between women and men.



"UniMAP is a Campus Free of Any Form of Smoking."

Universiti Malaysia Perlis is a no-smoking area and has received Blue Ribbon Beyond Certification in 2019



UniMAP Counselling Center (PUSKA) provides counselling programs and free Counselling Service to students. PUSKA also collaborates with other health institutions to organise counselling programs.



JELAJAH FIT MALAYSIA 2023

The university Sports & Recreation Center opens its facilities to the campus and local community to encourage everyone to actively participate in sports and recreation.



ATHLETIC TRACK SPORTS COMPLEX

Used by schools in the states of Perlis and Kedah for training purposes and tournaments. Among the schools that use it are:

- 1) Sekolah Kebangsaan Batu Bertangkup
- 2) Sekolah Menengah Syed Sirajuddin
- 3) Sekolah Menengah Padang Besar Utara





SDG 4: Quality Education

Ensure healthy lives and promote well-being for all at all ages

Lifelong Learning Measures

National Training Week (NTW) 2023 conducted through various learning methods and platforms, is provided by local industry players for FREE to all Malaysians (public). In addition, UniMAP also provides free access to university facilities and equipment, online resources and even free courses leading to certificates. During NTW 2023, UniMAP is offering various training sessions, aimed at equipping participants with essential technical and vocational skills. These training sessions are designed to provide hands-on experience and are open to individuals seeking to enhance their competencies in various technical fields

Basic ARC Welding Training



KICAD Software PCB Design



3D Printing Fundamentals: A Beginner's Guide



Web OPAC

Web OPAC is an online library system that provides public access to UniMAP's catalog and holdings. Users can search, locate, and access books, serials, and other materials via the internet. Beyond library collections, UniMAP offers access to open-access resources developed by the university and its partners, benefiting both local and global communities.



UniMAP International STEM & Innovation Virtual Colloquia Series (ISICS)

The UniMAP International STEM & Innovation Virtual Colloquia Series (ISICS) is a public platform for sharing knowledge and expertise in STEM by renowned scientists and technologists. Five series were conducted in 2023, and a total of 18 series were held by August 2024.



Vocational Training Events

Centre for Professional Development and Continuing Education (PDCE) | Universiti Malaysia Perlis advocating actively professional programs that meet the industry requirement and general public to enhance competencies while supporting university initiative in lifelong learning goal.



he Summer Camp 2023 program

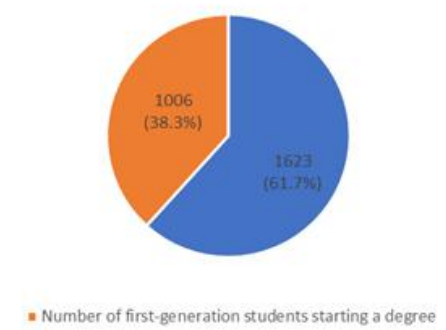
The Summer Camp 2023 program, "Generating Glocal Engineers," is being organised for the second time, following its debut in 2019. This program takes place on March 1-4, 2023, at UniMAP. This program can equip students with practical or hands-on skills that will enable them to participate directly in the field of robotics. This program enables students to gain hands-on experience in the field of robotics. UniMAP's academic and non-academic teaching personnel that are adept at providing training to students interested in the robotics industry. In addition, UniMAP serves as a catalyst for students to pursue high-tech engineering careers



Number of students starting a degree : 2629

Number of first-generation students starting a degree : 1006

Number of students starting a degree





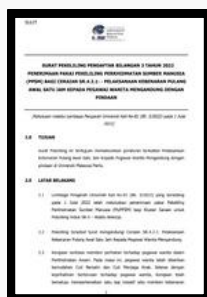
SDG 5: Gender Equality

Achieve gender equality and empower all women and girls

Safety & Security for Women

The participation of pregnant women in the university can enjoy the benefits:

- UniMAP always pays attention to female officers in Public services. At this time, female officers were given Maternity leave maximum 90 days per child (total maternity leave with full pay ; 360 days) and
- Paternity leave (7 days leave with full pay per child and limit to 5 times)



In accordance with the constant concern for women officers, UniMAP has agreed to introduce another initiative which is to give permission return home one (1) hour early to pregnant female officers seven months or more. This facility is given for charity and safety of female officers.

Women's Access Schemes (Students)



MPP 2023/2024



MPP 2022/2023



MPP 2021/2022

Senior Female Academics

- Number of senior academic staff 667
- Number of female senior academic staff 108

Women Receiving Degrees

- 1,323 out of 2,599 graduates in STEM, Medicine, Arts & Humanities / Social Sciences in 2023 are female

First-Generation Female Students

- Number of women starting a degree 1,235
- Number of first-generation women starting a degree 75
- Number of students starting a degree 2,629
- Number of first-generation students starting a degree 1,006
- Number of students 10,963

Women's Progress Measures

Distinction of race and creed prohibited

Subject to Article 153 of the Federal Constitution, membership of the University, whether as a student or employee of the University, shall be open to all persons irrespective of sex, race, religion, nationality or class; and no test of religious belief or profession shall be adopted or imposed in order to entitle any person to be admitted to such membership or to be awarded any degree or diploma of the University

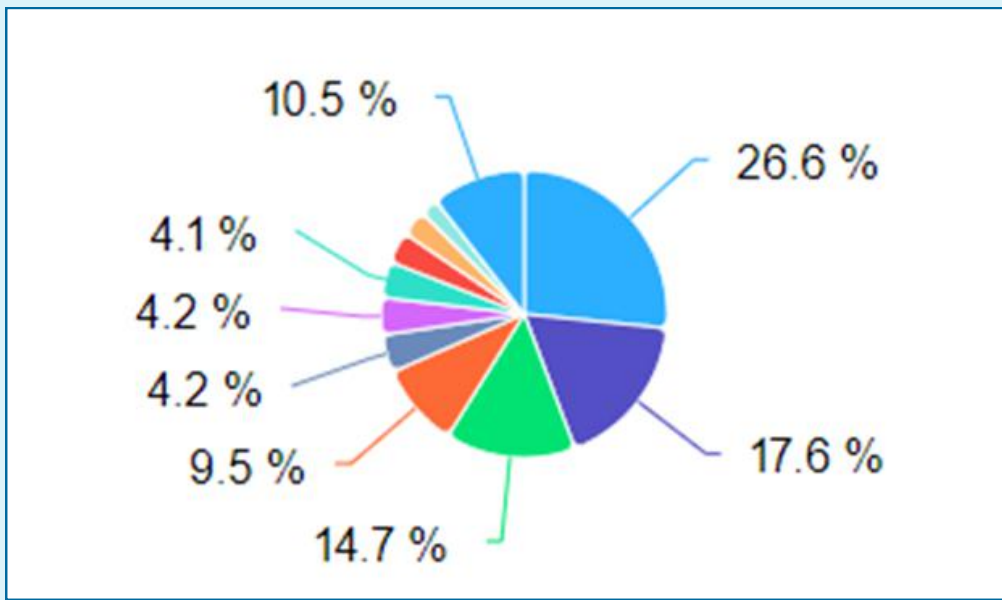




SDG 6: CLEAN WATER AND SANITATION

Ensure availability and sustainable management of water and sanitation for all

Key Stats



Stats

554 relevant publications since 2023

Academic Program

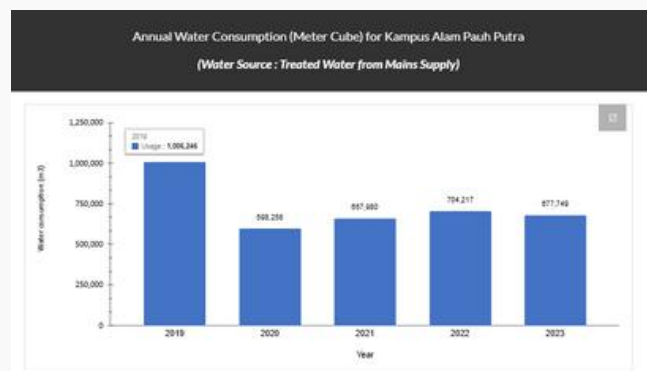
- Bachelor of Civil Engineering with Honours
- Bachelor of Environmental Engineering with Honours
- Bachelor of Biomedical Electronic Engineering with Honours
- Bachelor of Chemical Engineering with Honours
- Bachelor of Agricultural Engineering With Honours

Water Consumption

At Kampus Alam UniMAP Pauh Putra, water is the lifeblood that sustains the community. With a bustling population of 15,789 students, staff and other workers, the university thrives on collaboration, education and innovation. But behind the scenes, one resource quietly plays a crucial role in the campus's daily life which is water.

Every day, each person on campus uses approximately 0.12 cubic meters (or 120 liters) of water. It may seem like a small amount at first, but when multiplied by the thousands of people who live, work, and study on campus, the numbers tell a different story.

The campus uses a staggering 677,749 cubic meters of water annually. Every day, the campus consumes a total of 1,856.85 cubic meters of water. That's nearly 2 million liters, flowing through faucets, showers, kitchens, and labs, ensuring life at UniMAP continues without interruption.



Website for tracking system of water used in the university

Water Usage and Care

UniMAP has appointed a competent external company for the maintenance work of the Sewage Treatment Plant on a contract basis for a period 24 months. This is to make sewage treatment implemented in accordance with the requirements of the AKTA KUALITI ALAM SEKELILING 1974: Peraturan-peraturan Kualiti Alam Sekeliling (Kumbahan) 2009.

The implementation of maintenance is carried out periodically according to the maintenance schedule set on a weekly, monthly and annual basis. Monitoring of the entire operating system of the Sewage Treatment Plant is done through the Sewage Treatment System Performance Monitoring Parameter Record every month.



Free drinking water for students, staff and visitors

UniMAP rented water filter system to provide free water to all staff and students. This is to ensure all staff and student are provided with safe and purified water for drinking purpose. It is convenient for all staff and students to assess good quality of clean and safe purified drinking water at any time. Furthermore, staff and students will save the time to prepare hot/cold drinks during meetings, viva voce session without the need of having to go out to the store to buy hot/cold drinks.



Rainwater harvesting



RELATED DEPARTMENT Campus Development Department

The Development Department is core in enculturating excellent work culture among its members by providing complete and conducive infrastructure facilities and an efficient and systematic maintenance system.

Community Service

World Water Day 2023

A celebration of World Water Day 2023 (university level) was conducted in campus by organizing few activities such as colouring content, exhibition, mud ball making and forum. Those activities covered wide range of target group to promote conscious water usage among the campus community by Water Research and Environmental Sustainability Growth (WAREG) UniMAP.



A Colouring Contest in conjunction with World Water Day 2023

A short course by Water Research and Environmental Sustainability Growth (WAREG) UniMAP on the Compliance of Environmental Quality Act 1947 was conducted for the public and industries. The talk was delivered by Ts Dr Khairul Hafez Abdulillah dan Ts Hj Mohd Faizal Abdul Jalil.



Kem Pemimpin Muda Prihatin Air (Water Concerned Young Leaders Camp) by Water Research and Environmental Sustainability Growth (WAREG) UniMAP. The main objective of this camp is to promote water protection and conscious usage of water to the youth.



Ekspedisi Sumber Air Negara (State Water Resources Expedition) by Water Research and Environmental Sustainability Growth (WAREG) UniMAP. During this event, WAREG fellows shared their knowledge and expertise in treating water and wastewater using mudballs with the participants. This simple approach can be applied by the community to treat any polluted water bodies. The event was conducted at Tasik Melati, Perlis.



Water-conscious planting

UniMAP using rainwater and a retention pond as the main watering sources is a great approach for sustainable landscape maintenance. This method not only conserves tap water but also utilizes natural resources effectively. Watering early in the morning is indeed beneficial, as it minimizes evaporation and allows plants to absorb moisture more efficiently.



LOW CARBON TARGET

The objective is to reduce usage of high emission sources and increase the adoption of low emissions sources

ENERGY	WATER	WASTE
<p>Meningkatkan Program Kitaran Tenaga Dan Pengaliran Tenaga Boleh Baharu</p> <p>Jangka Pendek 5% pengurangan penggunaan tenaga</p> <p>Jangka Sederhana 8% pengurangan penggunaan tenaga dan 10% pengurangan tenaga daripada sumber tenaga boleh baharu</p> <p>Jangka Panjang 10% pengurangan penggunaan tenaga dan 10% pengurangan tenaga daripada sumber tenaga boleh baharu</p>	<p>Memperkenalkan penggunaan air termasud di dalam operasi universiti.</p> <p>Jangka Pendek 5% pengurangan penggunaan air termasud di dalam operasi universiti</p> <p>Jangka Sederhana 8% pengurangan penggunaan air termasud di dalam operasi universiti</p> <p>Jangka Panjang 10% pengurangan penggunaan air termasud di dalam operasi universiti</p>	<p>Mengurangkan penghasilan sisa di dalam operasi universiti</p> <p>Jangka Pendek 2% pengurangan jumlah penghasilan sisa ke tasap pelepasan sampah</p> <p>Jangka Sederhana 5% pengurangan jumlah penghasilan sisa ke tasap pelepasan sampah</p> <p>Jangka Panjang 10% pengurangan jumlah penghasilan sisa ke tasap pelepasan sampah</p>

KEMPEN JIMAT AIR

70% KURANG MALAYSIA MELAKUKAN TAP AIR TERBUKA DAN MENYALAKAN AIR

90 LITER SEMAH
155 LITER SEMAH
226 LITER SEMAH

MENGAWAL KADAR PENGGUNAAN AIR
MEMBERKA PAIP KOCOR
TAHAN AIR HUJAN
PASANG SISTEM DUA PAIP

CENTER OF SUSTAINABLE CAMPUS & ENERGY MANAGEMENT COSCEM

7 AFFORDABLE AND CLEAN ENERGY



SDG 7: AFFORDABLE AND CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all

Appointed to conduct a study on the effectiveness of solar photovoltaic projects implemented in mosques across the state of Perlis by the Perlis State Islamic Religious Council. Additionally, UniMAP will propose a set of guidelines for the implementation of solar programs in mosques to ensure maximum benefit and impact. This initiative aims to optimize the use of solar energy, contributing to sustainable energy practices and enhancing the overall efficiency of energy use in religious institutions.

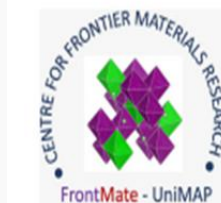


Related Programs

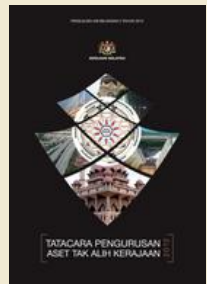
- Faculty of Electrical Engineering & Technology (FKTE)
- Faculty of Electronic Engineering & Technology (FKTEN)

Research Centres

- Centre of Excellence for Renewable Energy (CERE)
- Centre of Excellence for Automotive and Motorsport Technology (MOTEC)
- Centre of Excellence for Frontier Materials Research (CFMR)



University Measures Towards Affordable and Clean Energy



Renovation and building on campus have to follow the check list

WEBINAR SERIES PROGRAMS

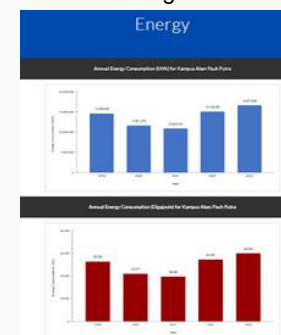
Universiti Malaysia Perlis (UniMAP), through the Center of Sustainable Campus and Energy Management (COSCEM), has organized four webinars to promote energy efficiency for the local community and industry. These webinars received Continuing Professional Development (CPD) recognition from the Board of Engineers Malaysia (BEM) and the Malaysian Board of Technologists (MBOT). They were well-received, attracting enthusiastic participation from both academic and industry professionals.



ENERGY WASTAGE IDENTIFICATION

Universiti Malaysia Perlis (UniMAP), through the Centre of Sustainable Campus and Energy Management (COSCEM), continuously reviews energy consumption by collecting data from all areas within the university. This data is collected monthly and then analyzed for presentation at the university level every six months through the University Infrastructure Committee. The decisions on improvements made by this committee are then implemented accordingly.

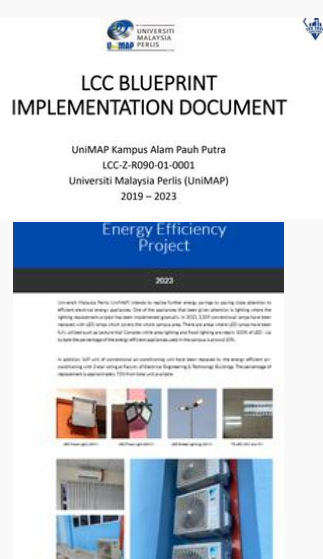
Additionally, a sustainability dashboard has been developed to facilitate the top management in monitoring monthly energy usage. UniMAP also undergoes audit sessions annually for Low Carbon Cities 2030 Challenge (LCC2030C) conducted by the Malaysian Green Technology And Climate Change Corporation (MGTC), making it essential to ensure that energy consumption is well-managed and controlled.



Universiti Malaysia Perlis (UniMAP) has plans to upgrade its buildings to higher energy efficiency. All related planning and strategies have been included in LCC Blueprint Implementation Document.

In 2023, 2,509 conventional lamps have been replaced with LED lamps which covers the whole campus area. There are areas where LED lamps have been fully utilized such as Lecture Hall Complex while area lighting and flood lighting are nearly 100% of LED. Up to date the percentage of the energy efficient appliances used in the campus is around 30%.

In addition, 149 unit of conventional air-conditioning unit have been replaced by the energy efficient air-conditioning with 3-star rating at Faculty of Electrical Engineering & Technology Buildings. The percentage of replacement is approximately 75% from total unit available



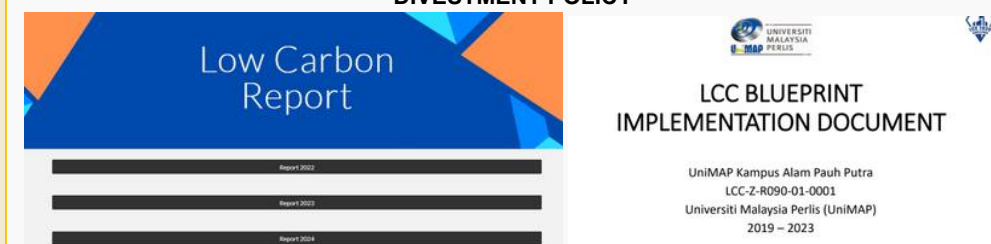
ENERGY WASTAGE IDENTIFICATION

Universiti Malaysia Perlis (UniMAP) through the Centre of Sustainable Campus and Energy Management (COSCEM) is involved in carbon management towards reducing carbon dioxide (CO₂) emissions by measuring, managing, and mitigating the UniMAP's carbon footprint. The Low Carbon Cities Blueprint Document has been developed for this purpose. The elements that have been focused include Energy (Scope 2), Water (Scope 2) and Waste (Scope 3) and Greenery (Scope 1, 2 and 3). COSCEM has established a Sustainable Campus Committee and an Energy Management Committee to plan, implement, and monitor low-carbon programs. Additionally, reporting to the top management is required every six months. As of 2023, a 10.96% reduction in greenhouse gas emissions has been successfully achieved based on a 2019 baseline, with a target of a 45% reduction by 2030.

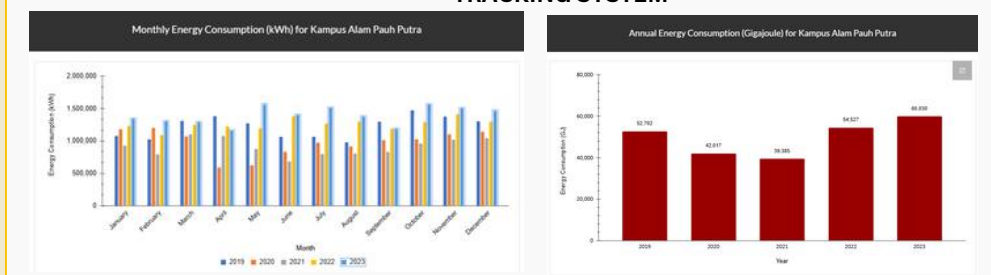
REDUCE ENERGY CONSUMPTION

Universiti Malaysia Perlis (UniMAP) has plans to reduce energy consumption. All related planning and strategies have been included in LCC Blueprint Implementation Document. One of the plans implemented in 2023 is replacing 2,509 conventional lamps with LED lamps which covers the whole campus area. There are areas where LED lamps have been fully utilized such as Lecture Hall Complex while area lighting and flood lighting are nearly 100% of LED. Up to date the percentage of the energy efficient appliances used in the campus is around 30%. In addition, 149 unit of conventional air-conditioning unit have been replaced by the energy efficient air-conditioning with 3-star rating at Faculty of Electrical Engineering & Technology Buildings. The percentage of replacement is approximately 75% from total unit available.

DIVESTMENT POLICY



TRACKING SYSTEM



Universiti Malaysia Perlis (UniMAP), through the Centre of Sustainable Campus and Energy Management (COSCEM), has organized a special seminar on "Efficient Electrical Energy Management" on July 20, 2023. This seminar aimed to promote energy efficiency practices among the local community. Co-organized with TNB Perlis, the national utility company, the event gathered 100 participants, including representatives from every mosque across the state of Perlis. In addition, Universiti Malaysia Perlis (UniMAP), through the Centre of Sustainable Campus and Energy Management (COSCEM), was invited to present a special paper on sustainable energy management for mosque buildings at the 2023 Perlis State Mosques Convention. The convention, held on September 7, 2023, was attended by mosque officials from across the state of Perlis.

UniMAP supports Malaysia's commitment to achieve carbon neutrality by 2050. UniMAP has set a minimum target to generate at least 10% of its energy from renewable energy resources by 2030. This goal reflects the institution's commitment to sustainability and reducing its carbon footprint and also serves as a model for integrating renewable energy into academic institutions.

Energy Objective and Targets	
OBJEKTIF	Meningkatkan Program Kelestarian Tenaga Dan Pengurusan Tenaga Boleh Baharu
SASARAN JANGKA PENDEK	15% pengurangan penggunaan tenaga
SASARAN JANGKA SEDERHANA	10% pengurangan penggunaan tenaga dan 15% penggunaan tenaga daripada sumber tenaga boleh baharu
SASARAN JANGKA PANJANG	15% pengurangan penggunaan tenaga dan 10% penggunaan tenaga daripada sumber tenaga boleh baharu

8 DECENT WORK AND ECONOMIC GROWTH



SDG 8: DECENT WORK AND ECONOMIC GROWTH

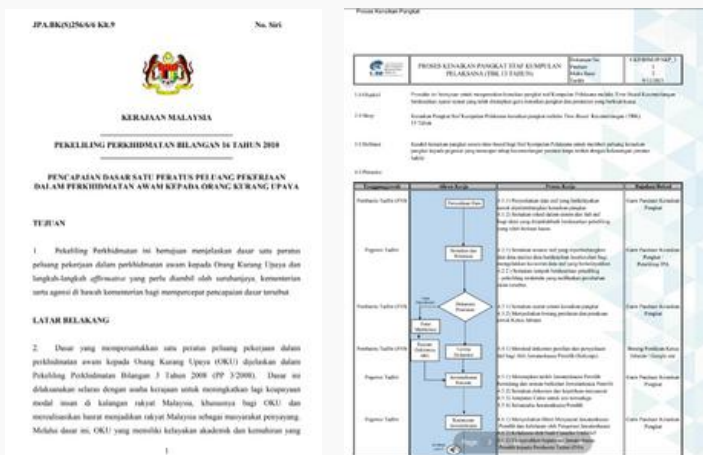
Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Institutional Stewardship Initiatives

EMPLOYMENT POLICY & EQUITY

UniMAP EMPLOYMENT PRACTICES

As a public university, UniMAP's employment practices are subject to circulars set by Jabatan Perkhidmatan Awam Malaysia (Public Services Department, Malaysia). The latest Circular on employment is Pekeliling Perkhidmatan Bilangan 1 Tahun 2016 Rasionalisasi Skim Perkhidmatan Bagi Perkhidmatan Awam Persekutuan Di Bawah Sistem Saranan Malaysia which highlights the terms of reference for employment. This Circular needs to be read together with the List of Service Scheme. The list states terms of appointment for services in the Public Sector. One of the terms states that the candidate must be not less than 18 years old when applying for a position at organisation. any publi



IMBUHAN TETAP PERUMAHAN (ITP)

Pegawai Dipertuankan Kuarters Substandard

100%
substandard

IMBUHAN TETAP PERUMAHAN (ITP)

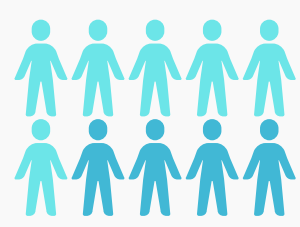
Grade	Kuarter Substandard (RM)	Tarikh Kuat Kos
35 (RM 36)	1,100	1 Januari 2017
33 (RM 34)	900	1 Januari 2017
31 (RM 32)	700	1 Januari 1998
29 (RM 30)	500	1 Januari 2008
27 (RM 28)	400	1 Januari 2008
25 (RM 26)	300	1 November 2015

EMPLOYMENT PRACTICE UNIONS

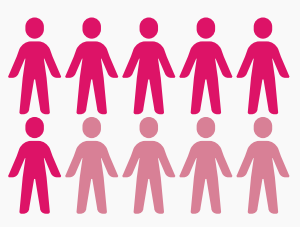
UniMAP has endorsed employment unions Persatuan Kakitangan Akademik (PKA) for Academic Staff, Persatuan Pegawai Tadbir dan Iktisas (POTENSI) for Administrator, and Kesatuan Kakitangan Pelaksana (KESONA) for Supporting Staff in resolving conflicts or issues related to employment and as a platform for staff to contribute ideas for the benefit of the university as well to enable staff to protect their own welfare.



Employees on Secure Contracts



Number of employees
2,105



Number of employees on contracts
2,023

Proportion of students taking work placements



Number of students
11,675



Number of students with work placements
2,983

RELATED DEPARTMENTS

- Registrar Department
- Centre For Graduate Employability & Entrepreneurship
- Legal Advisor & Integrity Office

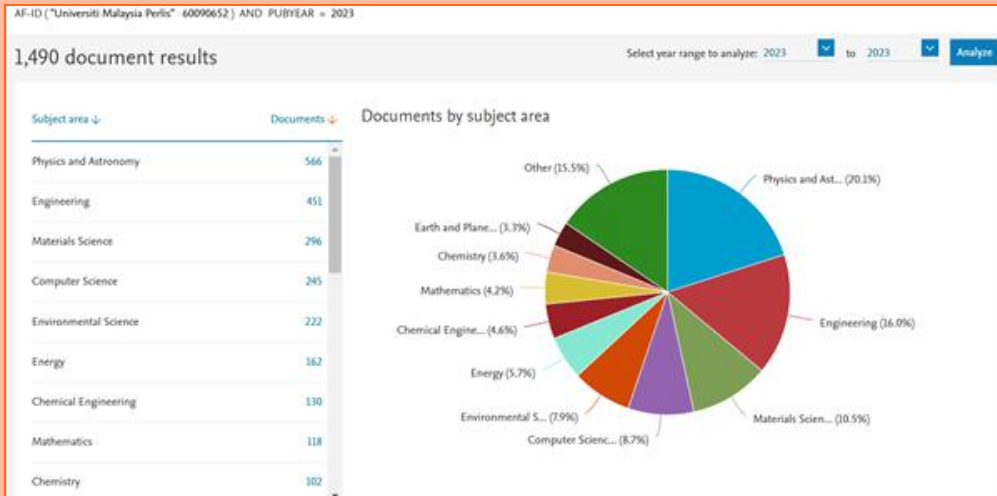
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Research Impact



1,490 research documents were published and listed in Scopus database in the year 2023, and 132 of those are related

International Invention, Innovation & Technology Exhibition (ITEX) 2023

International Invention, Innovation & Technology Exhibition (ITEX) 2023

CIC Universiti Malaysia Perlis ingin mengucapkan terima kasih kepada penyelidik dan pihak yang terlibat secara langsung mahupun tidak langsung dalam pameran penyelidikan ITEX 2023 pada 11-12 Mei 2023 bertempat di KLCC. UniMAP Berjaya memenangi 1 Anugerah Khas, 8 pingat Emas & 2 pingat Perak. Tahniah Semua.

Research Impact

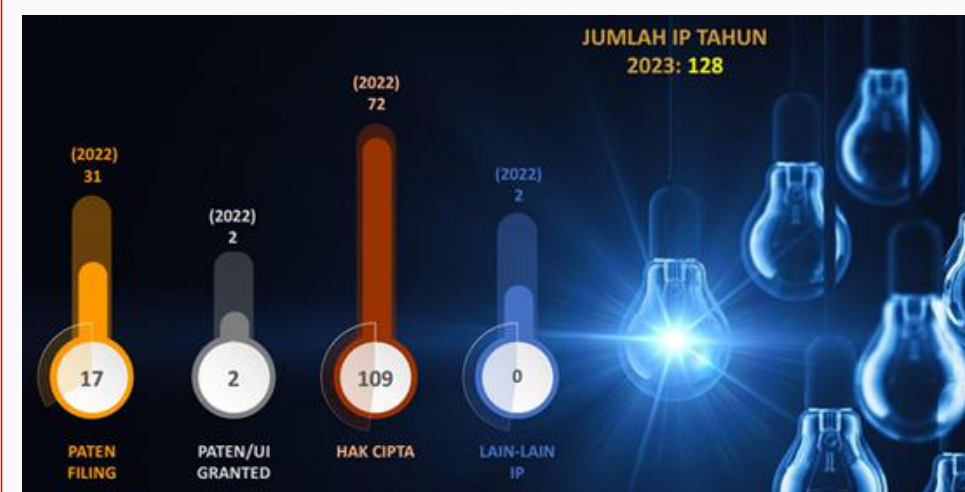
- Centre for Industry & Government Agency Collaboration (CIGC)
- Centre for Industry Collaboration (CIC)

Research Centre

- Centre of Excellence for Social Innovation and Sustainability (CoESIS)
- Centre of Excellence for Renewable Energy (CERE)

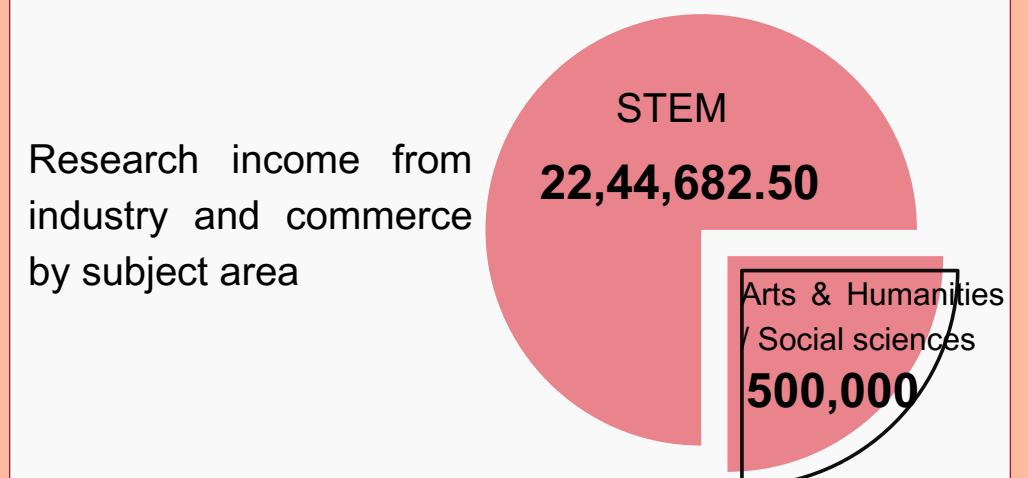


Patents



128 intellectual properties were filed in the year 2023, including 17 patent filing, 2 patents granted, and 109 copyrights

Research Income from Industry and Commerce



PERJANJIAN PELESENAN UNIMAP 2023

<p>AI-powered Geographic Information System Dashboard Assoc. Prof. Dr. Lailah Munirah Kamarudin RM10,000</p>	<p>A Visible Light Communication (VLC) Encoder-decoder System For Various Applications Assoc. Prof. Dr. Ts. Dr. Mohd Rashid Bin Che Beson RM10,000</p>
<p>Mi Serat Hanamania Ts. Dr. Noor Shafiana Azree Binti Abidin RM10,000</p>	<p>Frappeshub Conference Management System Dr. Syed Muhammad Mubashir Syed Zakaria, Assoc. Prof. Dr. Ammar Zakaria & Assoc. Prof. Dr. Lailah Munirah Kamarudin RM10,000</p>

RM 2,244,682.50 in research income was obtained in the year 2023, with RM 40,000 coming from licensing agreements.



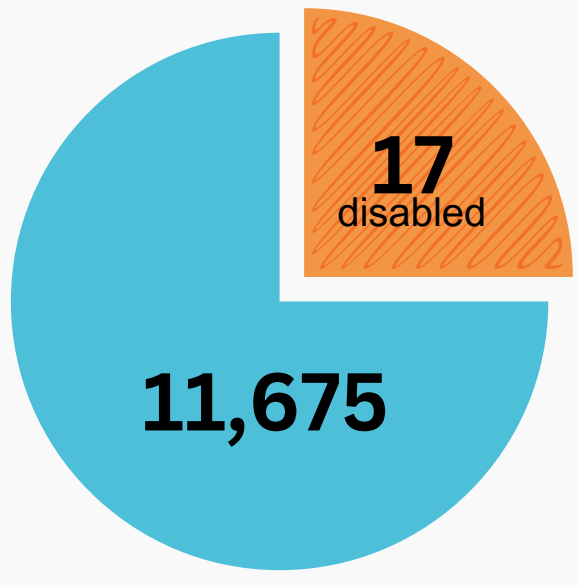
SDG 10: REDUCED INEQUALITIES

Reduce inequality within and among countries

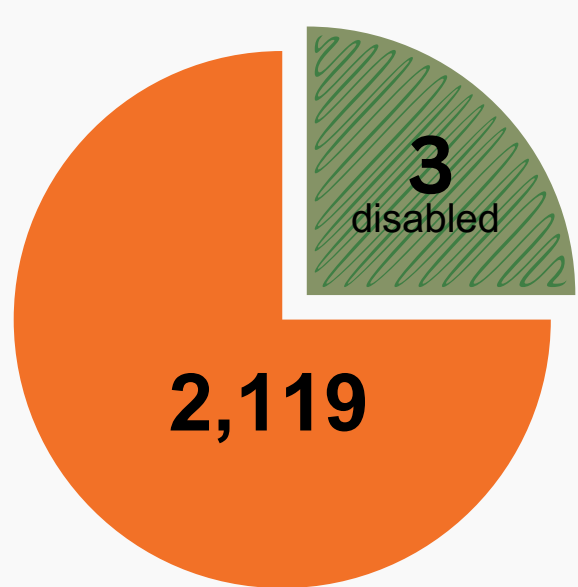
First-generation students

- Number of students starting a degree 2,629
- Number of first-generation students starting a degree 1,006

Employees/students with disabilities



Students



Employees

Admission policy UniMAP is based on the exam results from the Malaysian Higher School level.

SYARAT KEMASUKAN PROGRAM PENGAJIAN SARJANA MUDA LEPASAN STPM BAGI SIDANG AKADEMIK 2023/2024

Kelayakan Minimum STPM (Falsafah Semasa)

Syarat Am Universiti

Memiliki Sijil Pelajaran Malaysia (SPM) dengan mendapat Keputusan dalam mata pelajaran Bahasa Malaysia/Bahasa Melayu atau Keputusan dalam Bahasa Malaysia/Bahasa Melayu kertas Jujual dan kulin dalam mata pelajaran Sejarah (SPM tahun 2013 dan ke atas); Keputusan Bahasa Malaysia/Bahasa Melayu kertas Jujual diambil kira.

dan

Memiliki Sijil Tinggi Persekolahan Malaysia (STPM) dengan mendapat sekurang-kurangnya PNGK 2.00 dengan Gred C dalam tiga (3) mata pelajaran termasuk Pengajian Am;

dan

Mendapat sekurang-kurangnya Band 1.0 dalam Malaysian University English Test (MUET) untuk peperiksaan yang bermula awal 1 tahun 2021 ATAU Band 1 untuk peperiksaan sehingga tahun 2020 mengikut tempoh sah lalu pada tarikh permohonan.

Kelayakan Minimum (STPM Tahun 2022 atau sebelumnya)

Syarat Am Universiti

Memiliki Sijil Pelajaran Malaysia (SPM) dengan mendapat Keputusan dalam mata pelajaran Bahasa Malaysia/Bahasa Melayu atau Keputusan dalam Bahasa Malaysia/Bahasa Melayu kertas Jujual dan kulin dalam mata pelajaran Sejarah (SPM tahun 2013 dan ke atas); Keputusan Bahasa Malaysia/Bahasa Melayu kertas Jujual diambil kira;

dan

Lulus STPM tahun 2022 atau sebelumnya dengan mendapat sekurang-kurangnya PNGK 2.00 dengan Gred C dalam tiga (3) mata pelajaran termasuk Pengajian Am;

dan

Mendapat sekurang-kurangnya Band 1.0 dalam Malaysian University English Test (MUET) untuk peperiksaan yang bermula awal 1 tahun 2021 ATAU Band 1 untuk peperiksaan sehingga tahun 2020 mengikut tempoh sah lalu pada tarikh permohonan.

UniMAP actions to recruit students, staff, and faculty from under-represented groups

J.P.A.BK(S)256/6/6 KR.9 No. Siri

KERAJAAN MALAYSIA

PEKELILING PERKHIDMATAN BILANGAN 14 TAHUN 2019

PENCAPAIAN BASAR SATE PERATUS PELUANG PEKERJAAN DALAM PERKHIDMATAN AWAM KEPADA ORANG KURANG UPAYA

TERUAN

1. Pekeliling Perkhidmatan ini bertujuan menjadikan dasar satu peratus peluang pekerjaan dalam perkhidmatan awam kepada Orang Kurang Upaya dan langkah-langkah afirmatif yang perlu diambil oleh suruhanjaya, kementerian serta agensi di bawah kementerian bagi mempromosikan pencapaian dasar tersebut.

LAYAR BELAKANG

2. Dasar yang memperuntukkan satu peratus peluang pekerjaan dalam perkhidmatan awam kepada Orang Kurang Upaya (OKU) dijalankan dalam Pekeliling Perkhidmatan Bilangan 3 Tahun 2008 (PP 3/2008). Dasar ini dilaksanakan selaras dengan usaha kerajaan untuk meningkatkan lagi keupayaan modal insan di kalangan rakyat Malaysia, khususnya bagi OKU dan merealisasikan hasrat menjadikan rakyat Malaysia sebagai masyarakat penyayang. Melalui dasar ini, OKU yang memiliki kelayakan akademik dan kemahiran yang

The University Management Committee is the central body responsible for the management and control of a university. It is composed of various individuals and functions, including the university Vice Chancellor, Deputy Vice Chancellor and other senior positions.

The university executive committee is responsible for the overall development and strategic direction of the university. It sets the vision, goals and priorities of the university and develops appropriate strategies for implementation. Aspects such as quality assurance, internationalization, research funding, study programs and infrastructure planning are taken into account

IFTAR JAMIAE UniMAP

PIMPIN activities and programs always invited and welcoming audiences or participations from community outside the campus who need help and the attention of the PIMPIN.

PROGRAM KASIH RAMADAN

PIMPIN focuses on improving the standard of living and job productivity of UniMAP employees from the asnaf group including the less fortunate. Among the activities and programs that have been implemented throughout the year 2023 are the 'Sumbangan Bakul Makanan', 'Program Kasih Ramadan' and the Iftar Jamaie Program. These activities and programs also involve the asnaf and the less fortunate from community outside the campus who need help and the attention of the PIMPIN.

Facilities for people with disabilities

UniMAP's building is equipped with accessible facilities for people with disabilities. Existence of facilities in UniMAP is at rental building and permanent building in UniMAP's campuses.

No.	FACILITIES FOR PEOPLE WITH DISABILITIES	LOCATION	QUANTITY
1	JALANAN, PONDOK	JALANAN, PONDOK	2
2	JALANAN, PONDOK	JALANAN, PONDOK	2
3	JALANAN, PONDOK	JALANAN, PONDOK	2
4	JALANAN, PONDOK	JALANAN, PONDOK	2
5	JALANAN, PONDOK	JALANAN, PONDOK	2
6	JALANAN, PONDOK	JALANAN, PONDOK	2
7	JALANAN, PONDOK	JALANAN, PONDOK	2
8	JALANAN, PONDOK	JALANAN, PONDOK	2
9	JALANAN, PONDOK	JALANAN, PONDOK	2
10	JALANAN, PONDOK	JALANAN, PONDOK	2
11	JALANAN, PONDOK	JALANAN, PONDOK	2
12	JALANAN, PONDOK	JALANAN, PONDOK	2
13	JALANAN, PONDOK	JALANAN, PONDOK	2
14	JALANAN, PONDOK	JALANAN, PONDOK	2
15	JALANAN, PONDOK	JALANAN, PONDOK	2
16	JALANAN, PONDOK	JALANAN, PONDOK	2
17	JALANAN, PONDOK	JALANAN, PONDOK	2
18	JALANAN, PONDOK	JALANAN, PONDOK	2
19	JALANAN, PONDOK	JALANAN, PONDOK	2
20	JALANAN, PONDOK	JALANAN, PONDOK	2
21	JALANAN, PONDOK	JALANAN, PONDOK	2
22	JALANAN, PONDOK	JALANAN, PONDOK	2
23	JALANAN, PONDOK	JALANAN, PONDOK	2
24	JALANAN, PONDOK	JALANAN, PONDOK	2
25	JALANAN, PONDOK	JALANAN, PONDOK	2
26	JALANAN, PONDOK	JALANAN, PONDOK	2
27	JALANAN, PONDOK	JALANAN, PONDOK	2
28	JALANAN, PONDOK	JALANAN, PONDOK	2
29	JALANAN, PONDOK	JALANAN, PONDOK	2
30	JALANAN, PONDOK	JALANAN, PONDOK	2
31	JALANAN, PONDOK	JALANAN, PONDOK	2
32	JALANAN, PONDOK	JALANAN, PONDOK	2
33	JALANAN, PONDOK	JALANAN, PONDOK	2
34	JALANAN, PONDOK	JALANAN, PONDOK	2
35	JALANAN, PONDOK	JALANAN, PONDOK	2
36	JALANAN, PONDOK	JALANAN, PONDOK	2
37	JALANAN, PONDOK	JALANAN, PONDOK	2
38	JALANAN, PONDOK	JALANAN, PONDOK	2
39	JALANAN, PONDOK	JALANAN, PONDOK	2
40	JALANAN, PONDOK	JALANAN, PONDOK	2
41	JALANAN, PONDOK	JALANAN, PONDOK	2
42	JALANAN, PONDOK	JALANAN, PONDOK	2
43	JALANAN, PONDOK	JALANAN, PONDOK	2
44	JALANAN, PONDOK	JALANAN, PONDOK	2
45	JALANAN, PONDOK	JALANAN, PONDOK	2
46	JALANAN, PONDOK	JALANAN, PONDOK	2
47	JALANAN, PONDOK	JALANAN, PONDOK	2
48	JALANAN, PONDOK	JALANAN, PONDOK	2
49	JALANAN, PONDOK	JALANAN, PONDOK	2
50	JALANAN, PONDOK	JALANAN, PONDOK	2

11 SUSTAINABLE CITIES AND COMMUNITIES



SDG 11: SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable

Public access to libraries

UniMAP library commons was officially opened in 2009 featuring leisure areas, light reading section, laptop zone and Infoaccess Lab. In the same year, thenewmini library at the then School of Manufacturing building complex was officially launched to serve library users in Pauh Putra Campus. Designing process was carried out by our very own library staff in January 2011. Implementing the nature campus concept, the library building adopts three main themes for each level, including seas, gardens and skies. The Library is blessed with wonderful, advanced technologies, modern furniture and up-to-date IT facilities. Special areas such as laptop zones, leisure areas, infotainment zone, noise zone and learning pods have become new attractions for library users. The library is designed specifically to cater for collaborative learning areas, supporting group discussion activities and broadening access to online information and services



PELANTAR, SISTEM DAN APLIKASI DI PERPUSTAKAAN



COMMUNITY HUB

The university has designated the library as a community hub that provides services and facilities for autistic children, school students from B40 families, and higher education students in the state of Perlis to utilize the available information resources. Community members can make use of various facilities such as Makerspace, autism therapy centers, community spaces, and more.



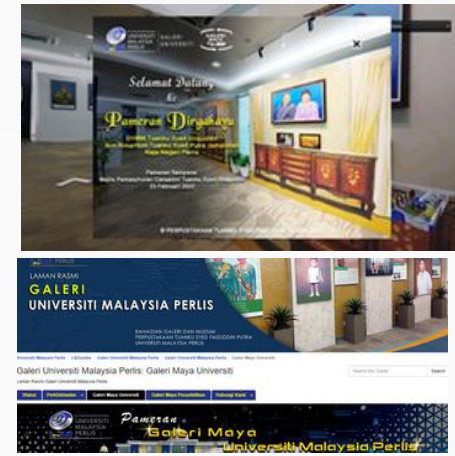
PERLIS ART BRIDGE EXHIBITION

A total of 150 international painters from 15 countries camped at Universiti Malaysia Perlis (UniMAP) from 23 August until yesterday, to make the 'Perlis Art Bridge Exhibition: International Art Camp 2023' program organized by City Art Gallery a success.



UniMAP Virtual Gallery was inaugurated by HRH Tuanku Syed Faizuddin Putra Ibni Tuanku Syed Sirajuddin Jamalullail, the Crown Prince of Perlis, as Chancellor of UniMAP on 21 November 2022 at the University Gallery, located at level 1, Chancellery Building, Universiti Malaysia Perlis. This virtual gallery service allows users to access high-impact UniMAP exhibitions that have been exhibited at the University Gallery online. Users can have an exciting experience while exploring this virtual gallery.

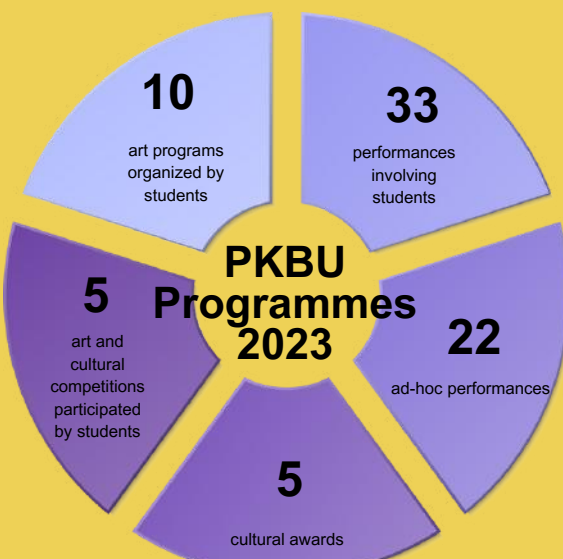
VIRTUAL GALLERY



PKBU Programmes 2023

UniMAP Cultural Centre (PKBU) has achieved 75 programs related to public performances of cultural and local arts throughout the year 2023. These programs include performances of traditional dances, theatrical and music performances, choirs, poetry and so on. These programs range from local to international level, and collaborations with the government and private sectors, as well as cultural arts activists.

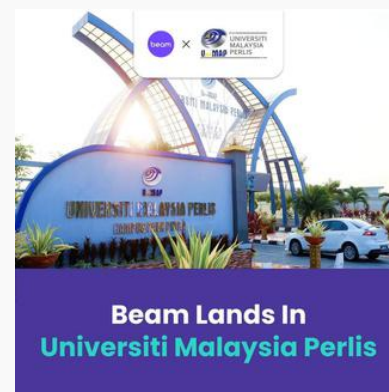
UniMAP Cultural Centre (PKBU) aims to develop and promote the richness and diversity of Malaysian's traditional arts and culture. PKBU encourages the growth of cultural arts activities at various levels through effective cooperation between cultural arts industry players, government agencies, the private sector, non-governmental organizations and cultural arts activists.



Tarian Canggung

FKTM: SUSTAINABLE-TECHNOLOGY CAMPUS

Sustainable development is not only an environmental agenda but also community well-being and overall economic growth. E-SCOOTER project with the company BEAM MOBILITY MALAYSIA, where it uses a network of IoT (Internet of Things) technology and smart phones.



SUSTAINABLE COMMUTING UNIMAP_SHUTTLE BUS

SUSTAINABLE COMMUTING UniMAP provides shuttle buses to students and staff in the spirit of sustainable commuting. The buses operate on a regular schedule, with stops in key points within the campus, and between the university's learning centres across the city. The facility is free of charge and helps in the reduction of carbon footprint, as students especially do not have to use their own vehicles (cars and motorcycles) to attend classes. The buses also are equipped with tracking system that tracks their location and their performance.



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

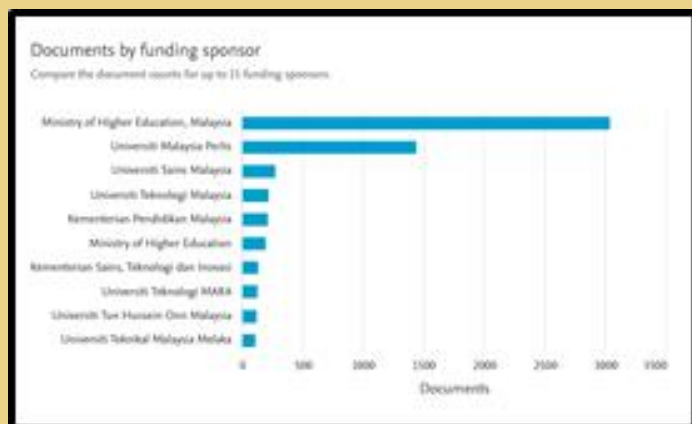
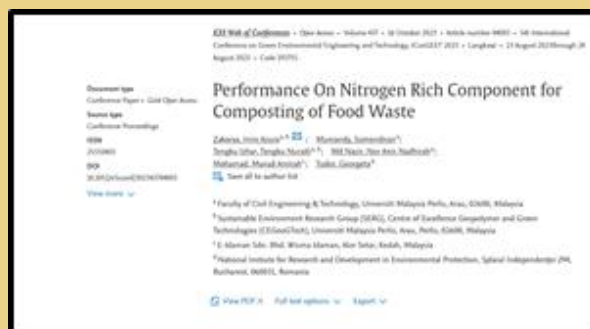


SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns.

Research Impact

553 relevant publications from 2013-2023



Related Department

UniMAP is continuously working towards efficient use of resources and the minimization of waste. A few programs are continuously conducted to reduce the use of paper and plastic in campus, including awareness programmes, practical/hands-on programmes, Sustainability Talks, Exhibitions and competitions, underscored by the university's Sustainability Policy. Centre for the Management of Occupational Safety, Health & Environment (COSHE) UniMAP implements policy "DASAR KKP 2022" to provide a safe, healthy environment and protect the environment through systematic work culture by staff, students, visitors and contractors.



ETHICAL SOURCING POLICY



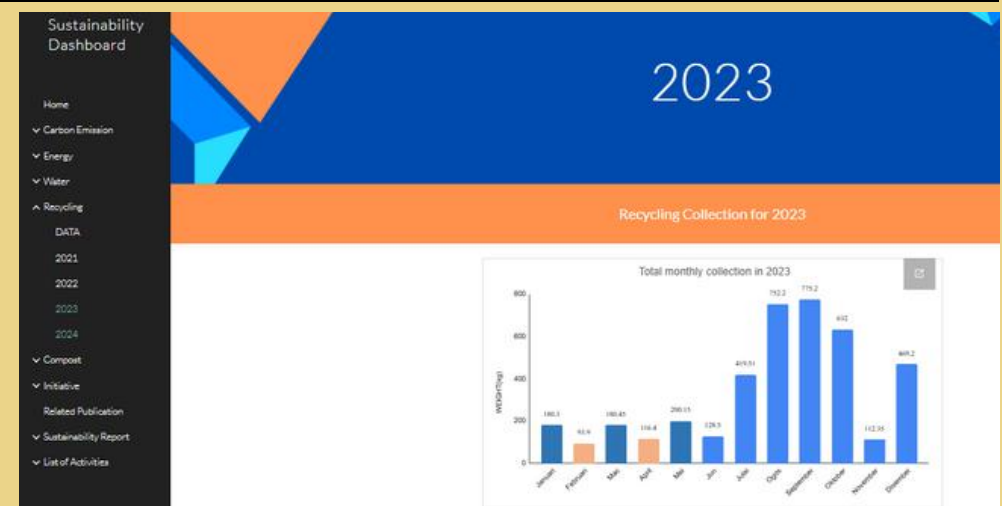
Policy for CAFETERIA and food supplier (agreement)

Inspection & Grading of Premises

Waste Policy and Tracking System for Protecting the Environment



MINIMISATION OF PLASTIC USE IN CAMPUS



TRACKING SYSTEM



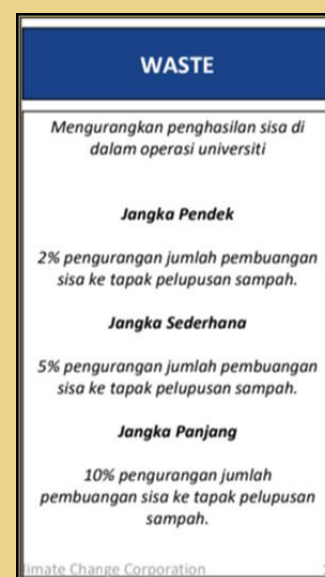
INITIATIVES TO REDUCE WASTE ON CAMPUS



COLLECTED USED COOKING OIL



POLICY



TARGET



PUBLICATION OF A SUSTAINABILITY REPORT



SDG 13: CLIMATE ACTION

Take urgent action to combat climate change and its impacts

Research Impact

A total of 332 publications have been produced, contributing to the body of knowledge surrounding climate action and sustainable practices. This research is crucial for understanding the impacts of climate change and developing effective strategies for mitigation and adaptation.

332 documents for *Climate action*

Article • Open access
Reverse water gas shift reaction over a Cu/ZnO catalyst supported on regenerated spent bleaching earth (RSBE) in a slurry reactor: the effect of the Cu/Zn ratio on the catalytic activity
Phay Phay, M.L., Tuan Abdullah, T.A., Umi Fazara, M.A., ...Ikrani, M.J., Nabgan, W.
RSC Advances, 2023

Article • Open access
The detrimental effects of dirty energy, foreign investment, and corruption on environmental quality: New evidence from Indonesia
Pujati, A., Yanto, H., Handayani, B.D., ...Borhan, H.B., Shaari, M.S.
Frontiers in Environmental Science, 2023

Article • Open access
A Multi-Analytical Approach to Investigate the Motivations of Sustainable Green Technology in the Banking Industry: Do Gender and Age Matter?
Bouteraa, M., Al-Duhani, M., Chokima, B., ...Elkhalouf, A., Lim, M.F.
International Journal of Social Ecology and Sustainable Development, 2023

Book Chapter
Assessment of Hydrogen-Rich Syngas From Biogas Using Aspen HYSYS
Nofal Fihat, A.A., Riduan, M.Z.H., Zainal Abidin, H., ...Rahmat, N., Abdullah, M.M.A.B.
Springer Proceedings in Materials, 2023

Low-Carbon

In 2023, Universiti Malaysia Perlis (UniMAP) has subscribed to 2 309.644 MWh (8,315 GJ) of green electricity from the utility. This effort to promote low carbon energy use has resulted in a significant achievement, with 13.85% of energy consumption now derived from low carbon sources.



Environmental Education

In 2023, 27 programmes have been implemented by Universiti Malaysia Perlis (UniMAP) through Centre of Sustainable Campus and Energy Management (COSCEM), involving 11 collaborators. These initiatives aim to raise awareness and educate individuals and communities about the importance of climate action and sustainable practices, fostering a culture of environmental responsibility covering aspects of energy, water, waste and greenery.

- Campaign on Campus:
- Only through campaign that was publish in COSCEM official social media to spread awareness among staff and students.
 - Introducing Anugerah Kampus Lestari held every year since 2023. Joined by category of PTj, Faculty and Kolej Kediaman.

Achievement

Universiti Malaysia Perlis (UniMAP) is committed to carbon neutral and has participated in Low Carbon Cities 2030 Challenge (LCC2030C) organized by Government of Malaysia. The aims is to achieve reduction in carbon intensity by 45% in 2030. In addition, UniMAP also support Malaysia's commitment to achieve carbon neutrality by 2050.

The elements that have been evaluated include Energy (Scope 2), Water (Scope 2) and Waste (Scope 3) and Greenery (Scope 1,2 and 3).

A commitment to achieve carbon neutrality has been established, with 10.96% reduction in greenhouse gas emissions in 2023 based on a 2019 baseline. This commitment underscores the urgency of addressing climate change and the need for collective action to meet global climate targets.

This is to verify that **UNIVERSITI MALAYSIA PERLIS** for its **UNIMAP KAMPUS ALAM PAUH PUTRA** Low Carbon Zone has successfully reduced its GHG emissions by 10.96% since 2019 across 3 elements which is equivalent to 305.73 tCO₂e and has maintained its carbon sequestration potential of 2,367.84 tCO₂e/year

ELEMENT	REDUCTION ACHIEVED	DIAMOND LEVEL
ENERGY	10.61%	👍👍👍👍
WATER	21.79%	👍👍👍👍
WASTE	(2.22%)	👍👍👍👍
MOBILITY	-	👍👍👍👍
ELEMENT	SEQUESTRATION	DIAMOND LEVEL
GREENERY	300	👍👍👍👍

27 Programmes

11 collaborators

awareness and educate individuals and communities about the importance of climate action

sustainable practices, fostering a culture of environmental responsibility covering aspects of energy, water, waste and greenery.



SDG 14: Life Below Water

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

Collaborations and Health Services

Water Research and Environmental Sustainability Growth (WAREG) is engaged in programs for seawater management in the state of Perlis and the Thai border. The study's findings, as well as the river water quality near Perlis, were presented to the local government for further improvement and future planning.

KEM PEMIMPIN MUDA PRIHATIN AIR 2023 (KPMPA 2023)

Centre of Excellence, Water Research and Environmental Sustainability Growth (WAREG) fellows and students from the Faculty of Civil Engineering & Technology (FTKA), Universiti Malaysia Perlis participated as facilitators and participants in the Kem Pemimpin Muda Prihatin Air 2023 (KPMPA 2023, Northern Zone), which was organised by UUM, UniSHAMS, and WAREG as co-organisers. The camp is being hosted at VISTANA@Sg Riyau Sedim Riverside Resort in Kedah. The goal of this camp is to raise awareness of water resources with a focus on educational fieldwork.



Kem Pemimpin Muda Prihatin Air 2023 (KPMPA 2023, Northern Zone)

CHARACTERISATION OF RIVER BASIN CHARACTERISTICS AND ENVIRONMENT WORKSHOP

Centre of Excellence, Water Research and Environmental Sustainability Growth (WAREG) had organised a workshop on characterisation of river basin characteristics and environment for the National Water Research Institute of Malaysia's (NAHRIM) staff on 21-23 September 2023. This workshop is one of the activities carried out under the MOU with NAHRIM. The organisation of this workshop aims to give exposure to participants on the issue of water resources, river pollution, and erosion/sedimentation of the Sungai Muda Basin



Characterisation of River Basin Characteristics and Environment Workshop for NAHRIM at Sungai Muda Basin

GROUNDWATER MONITORING PROJECT IN LUBUK MACHANG VILLAGE

An industrial grant with an amount of RM 42,000 was granted by ACME Chemicals Sdn. Bhd. on 1st of February, 2023, to Centre of Excellence, Water Research and Environmental Sustainability Growth (WAREG). Research fellows are required to monitor a project in Lubuk Machang Village for community use, specifically for drinking water purposes. This community project aims to monitor groundwater treatment in Lubuk Machang Village as a way to address the area's water shortage.



Groundwater monitoring project in Lubuk Machang Village, Perlis

YOUNG ENVIRONMENTALIST CAMP 2023

Water Research and Environmental Sustainability Growth (WAREG) fellows under the UniMAP Innovation for International Society (IRIS) 1.0 Grant have successfully conducted a Young Environmentalist Camp (YEC) program at Ban Khuan School, Satun, on 26 May 2023. This program was attended by 60 sixth year students. Nine experiments involving water parameters are provided to give students exposure to water treatment and try simple experiments that are suitable for the students' level of education.



The UniMAP Innovation for International Society (IRIS) 1.0 at Ban Khuan School, Satun, Thailand

INTERNATIONAL WEBINAR, 'CORAL WATCH: ADVANCEMENT IN MONITORING CORAL REEFS THROUGH REMOTE SENSING TECHNOLOGY'

Centre of Excellence, Water Research and Environmental Sustainability Growth (WAREG) had organised an international webinar, 'Coral Watch: Advancement in Monitoring Coral Reefs through Remote Sensing Technology' which took place on 14 June 2023. The webinar attracted a global audience interested in exploring advanced methods used in coral reef conservation. Guest speaker is Associate Professor Krisanadej Jaroensutasinee, CoE Director for Ecoinformatics and Assistant Dean of Research, School of Science, Walailak University, Thailand.



International webinar, 'Coral Watch: Advancement in Monitoring Coral Reefs through Remote Sensing Technology'

NATIONAL WATER RESOURCES EXPEDITION : MUDBALL MAKING

Water Research and Environmental Sustainability Growth (WAREG) researchers were invited to be facilitators in the Mudball Making session as one of the slots with participants during the National Water Resources Expedition. This event was organised by the Department of Irrigation and Drainage and UNESCO IHP Malaysia. This Mudball program takes place in Tasik Melati, Kangar, Perlis with the aim of treating water pollution in ponds, lakes, and rivers to support the aquatic ecosystem and to eliminate the foul smelling odours caused by high levels of pollutants (e.g., ammonia).



National Water Resources Expedition (Mudball Making), Tasik Melati, Perlis

15 LIFE ON LAND

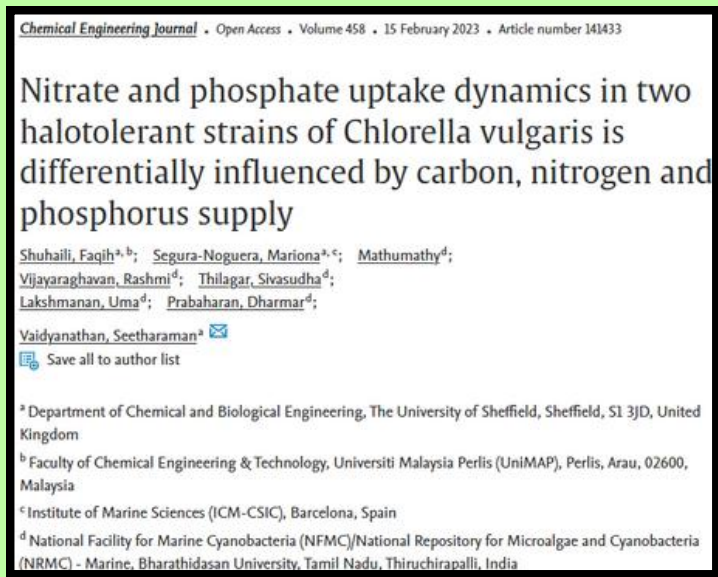


SDG 15: LIFE ON LAND

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

Research Impact

35 relevant publications from 2017-2023



Courses Related

- Precision Agriculture (MMJ44103)
- Plant and Animal Sciences (MMJ14003)



OUTREACH PROGRAM

The Perlis Green Hour program is a collaborative program between the Perlis State Forestry Department and UniMAP that is recorded in The Malaysia Book of Records. The campaign to plant 1 million trees in the state of Perlis involves various participants in the state of Perlis such as NGOs, communities, school students, university students, government agencies and the state government. The main purpose of this program is to raise awareness about the importance of greening.



Collaborations and Health Services

INTERNAL PROGRAM

The Perlis Green Hour program is a forest tree planting program on the UniMAP Pauh campus for campus greening purposes. The program aims to raise awareness of greening among UniMAP staff and students. Tree planting is carried out simultaneously throughout the state of Perlis to achieve the target of planting 1 million trees by 2023. This program is recognized by The Malaysia Book of Records.

The Perlis Green Hour program is a forest tree planting program on the UniMAP Pauh campus for campus greening purposes. The program aims to raise awareness of greening among UniMAP staff and students. Tree planting is carried out simultaneously throughout the state of Perlis to achieve the target of planting 1 million trees by 2023. This program is recognized by The Malaysia Book of Records.



OUTREACH PROGRAM



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



SDG 16: PEACE, JUSTICE, AND STRONG INSTITUTIONS

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

Research Impact

UniMAP has produced **63** papers related to SDG 16 from 2017-2023

Members of UniMAP's Board of Director comprises of three person from private sector. This is to ensure that the University's governance structures are capable of providing challenge of providing challenge and scrutiny to the core academic mission of the University. In particular, the independent members are to draw upon their knowledge and experience of other fields to assist the University in its work. The representation in UniMAP Board of Director reflects the composition of the University's different communities, including staff and students.

Lembaga Pengarah

17. (1) Lembaga Pengarah hendaklah terdiri daripada—
- (a) Pengerusi;
 - (b) Naib Canselor;
 - (c) dua orang pegawai daripada perkhidmatan awam;
 - (d) seorang yang mewakili masyarakat di tempat terletaknya Universiti itu;
 - (e) seorang profesor Universiti yang dipilih oleh Senat daripada kalangan ahli yang disebut dalam perenggan 22(1)(d); dan
 - (f) lima orang yang terdiri daripada tiga orang daripada sektor swasta, seorang daripada alumni Universiti dan seorang lagi dari dalam atau luar Universiti yang, pada pendapat Menteri, mempunyai pengetahuan dan pengalaman yang boleh membantu Lembaga.

MEETING WITH THE UNIMAP STUDENT REPRESENTATIVE COUNCIL EXECUTIVE COMMITTEE

A meeting held today with the Executive Committee of the UniMAP Student Representative Council (MPP) alongside the Director of the Centre for Student Development & Services (P3P) UniMAP. During the meeting, the MPP presented several proposals for the enhancement of student empowerment at UniMAP. The proposals included the election of the JPPM and JPMU Chairs within the Student Parliament, the establishment of a Student Union, and the creation of a Special Task Force for Concerned Students.

The HEPA (Student Affairs and Alumni Division) expressed full support for these student empowerment initiatives. The MPP is expected to play a key role in instilling proper conduct among students and becoming a crucial partner in assisting the university's management. It is hoped that the process of shaping UniMAP students into well-rounded individuals will be successfully implemented.



University Legal Documentation System (UniLEGAL) Launch Gimmick at the 2023 Vice-Chancellor's Mandate Council. University Legal Documentation System or known as UniLEGAL is a system for storing all legal documents and monitoring MoU/MoA activities developed by the Legal and Integrity Advisory Office with the help of expertise technical by the Digital Management and Development Center which is fully supported by the Deputy Vice-Chancellor (Research and Innovation).

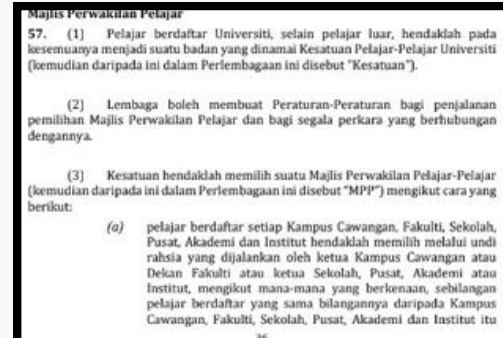
The development of this system is important and is an indicator of the delivery of services by the Legal and Integrity Advisory Office which benefits not only the faculty or responsibility center but is also able to produce an impact on the University through the Key Performance Indicators which are the University Strategic Plan (UniMAP 2025), Malaysia Research Assessment (MyRA), KPM's Data Quality Improvement System (MyMoheS) and can indirectly improve UniMAP achievements and ratings such as the Times Higher Education Impact Ranking and QS World University Ranking.

University Governance Measures

University governance refers to the systems, structures and processes that are required to ensure University comply with legislation and regulation, and that they are acting in line with the needs of Ministry and stakeholders. It is legally, practically and morally vital for organisations to maintain strong organisational governance to ensure a resilient, adaptable and healthy environment. University governance structures, processes and requirements are addressed through the Constitution Of The Universiti Malaysia Perlis [P.U.(A)468/2010]. Section 17 to Section 21, Part III of the Constitution focuses on the University Board of Directors as the highest governing body and its requirements such as membership and elected representation.



Student Representative Council, They serve as a medium of communication between students and the administration of university management to work on areas of improvement such as academics, campus life, facilities, and student services.



The UniMAP Student Representative Council (MPP) organized the UniMAP Patriotism Explorace (UniPEX)



Legal Advisor and Integrity Office Activities



This briefing is held specifically for the Dean / Director and Head of Department of each Faculty and department as a guide in reviewing external work applications submitted by any staff under supervision.



The Legal Advisor's Office is directly involved in providing information to university staff regarding aspects of strengthening integrity in the implementation of duties and responsibilities.



knowledge sharing session on corruption and responsibility of university staff with the Suruhanjaya Pencegahan Rasuah Malaysia (SPRM), Perlis.



The Organizational Anti Corruption Plan Development Workshop (OACP) of Universiti Malaysia Perlis took place in the Auditorium Banquet Hall, Tuanku Syed Sirajuddin Chancellery Building.



17 PARTNERSHIPS FOR THE GOALS



SDG 17: PARTNERSHIPS FOR THE GOALS

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

Relationships to Support the Goals



UniMAP recognises the important role everyone plays in the agenda of sustainable development. Most importantly, it acknowledges the salient role of collaborative work, that is between institutions, governments, companies, NGOs, and civil society.

“Memperkuakan peranan Malaysia sebagai ‘lynchpin for talents & knowledge’”
 YB Dato’ Seri Mohamed Khairul Bin Nordin
 Menteri Pendidikan Tinggi

UniMAP Global Outreach (UniGO)

UniMAP is planning to expand the UniGO program to five countries. The involvement of UniMAP students through the UniGO program organized by the UniMAP Student Development and Services Center (P3P) can expand the experience of students at the global level as well as promote this university on the international stage



UniMAP integrates SDGs elements across the curriculum of all study programmes through the establishment of Programme Outcomes related to sustainability.

ENGINEERING PROGRAMMES

PO7 : Understand and evaluate the sustainability and impact of professional engineering work in the solutions of complex engineering problems in societal and environmental contexts including ability to have entrepreneurship skills.

ENGINEERING TECHNOLOGY PROGRAMMES

PO7 : Demonstrate an understanding of the impact of engineering practices, taking into account the need for sustainable development.

NEW MEDIA COMMUNICATION PROGRAMME

PO3 : To interpret social issues, cultural, global, and environmental responsibility, and law and ethics to the practice fields of communication and social interaction, new media, and entrepreneurial management in their professional activities.

BUSINESS PROGRAMMES

PO10 : Ability to demonstrate professional entrepreneurship skills and innovativeness required for sustainable development.



Organization of the Global Trends in Engineering, Science and Technology Congress 2023 (GTEST2023). A total of 9 conferences were held concurrently, focusing on various issues with the theme ‘Humanizing Technology for Society’ (SDG 9).



INTERNATIONAL COLLABORATION AND RESEARCH

Coorganization of the Summer and Short Program for A3I Campus Asia Plus "Research and Intercultural Mobility Program" in the Real Problem Solving Driven Artificial Intelligence Education Program for 2023 between UniMAP, University of Yamanashi, Pukyong National University, Hangzhou Dianzhi University.



INTERNATIONAL COLLABORATION



Collaboration between UniMAP, Walailak University Thailand and Malaysian Maritime Enforcement Agency on marine water sampling near Malaysia-Thailand maritime boundary (Perlis and Langkawi Island, Malaysia; Satun, Thailand)

EDUCATION FOR SUSTAINABILITY

UniMAP offers academic programmes such as Bachelor of Environmental Engineering with Honours that focus on studies related to environmental sustainability.



All students at UniMAP have the opportunity to take the SMZ19801 People and Environmental Sustainability course as one of the co-curriculum courses

S U M M A R Y

The Sustainable Development Goals Report 2023 provides a Universiti Malaysia Perlis overview of progress on the implementation of the 2030 Agenda for Sustainable Development, using the latest available data and statistically analysis. It tracks the global and regional progress towards the 17 Goals with in-depth analyses of selected indicators for each Goal.

According to the Report the programs and activities held in Universiti Malaysia Perlis (UniMAP) aligned with United Nation's Sustainable Development Goals. The Report presented here is the compilation of activities conducted by all the departments in UniMAP not only the faculties but also the administrative departments, such as registrar, development, bursary, library, student centre, research clusters and safety office. The materials presented here shows UniMAP's contribution towards sustainability.

As a higher learning institution, UniMAP has an important role in nurturing sustainability mindset. This can be achieved by education, research, and community approach. Many of the SDG were addressed by education. Formal education such as the lectures conducted by subject matter expert, providing solution thru research and innovation and thru community work. The Report also highlights the programs related to climate change, creating spin-off impacts on food and nutrition, health, education, the environment, and peace and security, which affecting all the Sustainable Development Goals (SDGs). The Report details the reversal of years of progress in eradicating poverty and hunger, improving health and education, providing basic services, and much more. It also points out areas that deliver meaningful progress for students, staff and community.

Overall, UniMAP had shared of contribution towards the UN SDG's. However, sustainability is a continuous process, improving the way we operate for the betterment of people, planet and prosperity. We understand that actions we take at the university are not for the benefit of the university alone but may and will reverberate through the folds of society, influencing its members to embrace the idea of a better future for us and generations to come and thus take suitable actions to reflect the understanding.



CANSELORI TUANKU SYED SIRAJUDDIN



UIN Ar-Raniry

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SUSTAINABILITY REPORT 2023

