



UNIVERSITI  
MALAYSIA  
KELANTAN



# SUSTAINABLE DEVELOPMENT GOALS REPORT

UNIVERSITI MALAYSIA KELANTAN

2022





UMK 2022

**SUSTAINABLE  
DEVELOPMENT  
GOALS REPORT**

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Title : **SUSTAINABLE DEVELOPMENT GOALS REPORT UMK 2022**  
eISBN No. : **978-629-98379-4-7**

Published by:

UMK Corporate Press  
Department of Publication and Website Management  
Corporate Communication Centre  
Vice-Chancellor Office  
Universiti Malaysia Kelantan  
16300 Bachok  
Kelantan Darul Naim

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# PREFACE

**The United Nation's Sustainable Development Goals (SDGs) are a universal call to achieve a sustainable future and promote equality, human rights, and justice for all by 2030.**

University of Malaysia Kelantan (UMK) is aware of its duty to make a significant contribution to the creation and sharing of knowledge in order to address the issues outlined in the 2030 agenda for sustainable development.

As an entrepreneurship-focused university, we address the SDGs through our research, publishing, student learning, and public engagement activities. UMK is delighted to be ranked 601-800 in THE impact ranking 2023 and 801-1000 for engineering and physical sciences, marking the first time ever in the TOP 1500 World University Ranking 2023.

This report is intended for a broad audience encompassing the local, national, and international public, commercial, NGO, policy, and educational sectors. We hope it inspires additional ideas, projects, and possibilities for collaboration.

# Introduction

Universiti Malaysia Kelantan (UMK) is a higher education institution located in Kelantan, Malaysia. Established in 2006, UMK is one of the youngest universities in the country.

UMK is known for its focus on entrepreneurship. The institution aims to promote regional development and uplift the socio-economic status of the local community through education, research, and innovation.

The academic programs at UMK span a wide range of disciplines, including business and management, entrepreneurship, agro-industry, information technology, creative technology, hospitality, and tourism.

One of the distinguishing features of UMK is its emphasis on practical learning and experiential education. The university encourages its students to engage in hands-on activities, fieldwork, and industry collaborations to develop real-world skills and enhance their employability.

UMK is also committed to research and innovation, with a particular focus on agro-based industries, entrepreneurship, and sustainable development.



**"Entrepreneurship  
is Our Thrust"**

Overall, Universiti Malaysia Kelantan strives to be a catalyst for socioeconomic transformation in Kelantan and beyond. Through its educational programs, research initiatives, and community engagement, UMK aims to produce graduates who are equipped with the knowledge, skills, and entrepreneurial mindset to contribute positively to society.

# SDGs @ UMK

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## Our Commitment

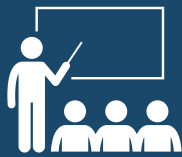
Universiti Malaysia Kelantan (UMK) is deeply committed to addressing the United Nations Sustainable Development Goals (SDGs) and actively contributes to their achievement. The university recognizes the importance of sustainable development in creating a better future for present and future generations. Universiti Malaysia Kelantan is dedicated to integrating sustainability principles into its core operations, educational programs, and research initiatives. Through its commitments to the SDGs, UMK strives to create a positive impact, inspire change, and contribute to a more sustainable and inclusive future.



# UMK SDGs

UMK advocacy towards SDG's

This report delivers the importance of SDGs at UMK within six areas which is staff training, grants obtained and the value of grant, publication related to SDGs , citations of publications and SDG related course unit



## Activities

Projects, activities and training related to SDG that involves UMK students and staff



## Research Grant

Awarded project grant to UMK that is related to SDGs



## Research Provision

Total grant income to UMK that is related to SDGs



## Publications

Total of publications related to SDG's for the current year



## Citations

Total of people referred to the publication related to SDG at UMK

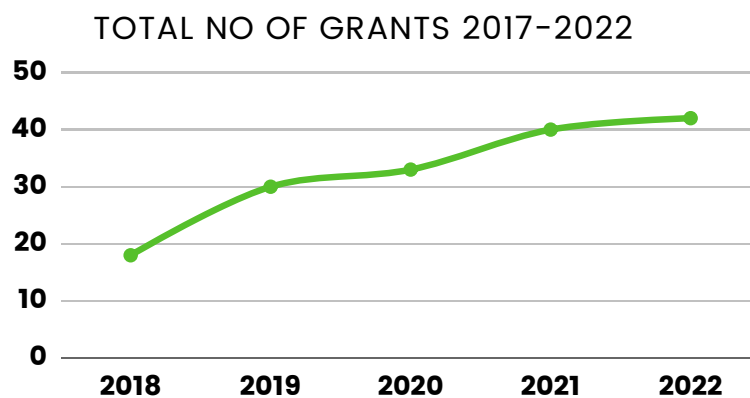
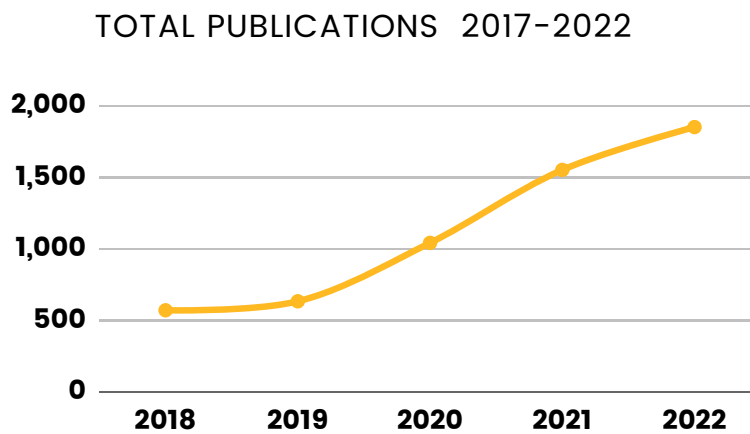
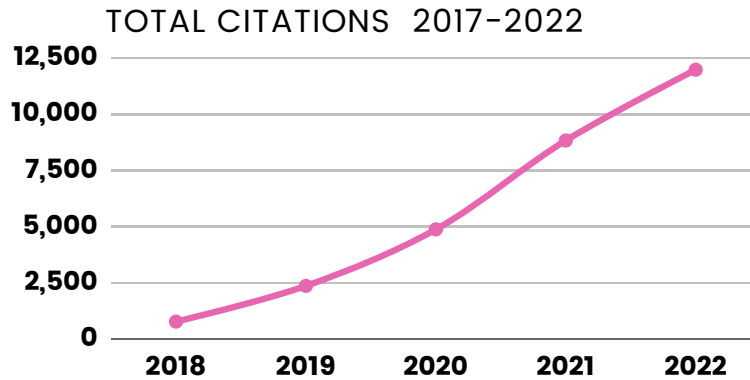


## SDG related course Unit

Total of SDG's related course unit at UMK

# SDG's at UMK 2017-2022

Universiti Malaysia Kelantan (UMK) are committed to support the SDG's which is shown by the increasing number of publication, number of grants and total citations which related to SDG in UMK within five years.



**“It is in your hands to create a better world for all who live in it.”**  
- Nelson Mandela

# 1 NO POVERTY



## SDG 1 : NO POVERTY

*“End poverty in all its form everywhere ”*



**Activities**

**17**



**Research Grant**

**29**



**Grant Provision**

**RM 4.2 Million**



**Publications**

**184**



**Citations**

**903**



**SDG related course Unit**

**127**

## RESEARCH INSTITUTE



### Institute for Poverty Research and Management (InsPeK)

UMK's Institute of Research and Poverty Management (InsPeK) is a Center of Excellence (CoE). InsPeK focuses on research and services related to poverty and well-being. InPeK is ranked 96th out of 769 institutions in the world regarding poverty (Top 100 globally). This ranking is based on The Times Higher Education (THE) Impacts Rankings 2022.



### Unipreneur 2.0

Center for Entrepreneurship Development and Education (CEED), UMK Entrepreneurship Institute (UMKEI) and Bank Rakyat are teaming up to host Unipreneur 2.0 involving 24 UMK entrepreneurship students. This program designed for student entrepreneurs from asnaf/B40 student entrepreneurs at local universities. This initiative aims to help these students develop their entrepreneurial skills by providing them with financial support, training, guidance, ongoing monitoring by their university's entrepreneurial center, and financial management assistance from Bank Rakyat.



## COMMUNITY ENGAGEMENT

### MOF-UMK Social Enterprise Project

This project aims to improve the social economy of Orang Asli Sungai Rual, Jeli which involve a mushroom enterprise and a batik inoproduct enterprise



### iBOX BMTKM

This system records all studies related to research and poverty management through studies and analyzes conducted under the Institute of Poverty Research and Management (InsPeK).



## LEARNING AND STUDENTS

### Accommodation

11 Free Rental House to Asnaf Student & Students Residential Collage

### Food Bank

Food bank to Asnaf students with free meal coupon everyday & Dry Food for students

### Internship student financial Support

UMK student that undergo internship were granted allowance RM350-RM500

### Education Support

RM 1 Million is invested in Internet data support for students and 250 selected students received Free laptop amounted RM1500 per year.

1498

Entered UMK through special path

8044

Students Recieved Financial Aid

### Transportation

Buses and Van in and out of campus for students

### Student Financial Support

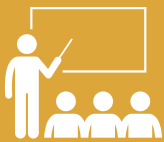
Scholarship awarded for student for each semester

2 ZERO HUNGER



## SDG 2 : ZERO HUNGER

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



**Activities**

**22**



**Research Grant**

**68**



**Grant Provision**

**RM 4.0  
Million**



**Publications**

**551**



**Citations**

**2184**



**SDG related course Unit**

**27**

## RESEARCH INSTITUTE



### Institute of Food Security and Sustainable Agriculture (IFSSA)

The Institute of Food Security and Sustainable Agriculture was established as a research and innovation center in the field of agriculture, agricultural technology and food safety. Align with its vision, IFSSA has set a mission to transform agriculture as an economic resource through increased research and innovation in the field of agriculture, agricultural technology and food security by providing expertise, skills, and technological know-how consulting to relevant stakeholders for socioeconomic development.



### Agro Techno Park (ATP)

ATP is a platform that is capable of driving the development of the agricultural sector. It aims to realize the strategy of transferring knowledge, expertise and research and development (R&D) to the community, thereby generating an economy based on agriculture. ATP consist of crop, livestock, nursery division and teaching, learning and research.

## COMMUNITY ENGAGEMENT



IFSSA in collaboration with the community of Kg. Merapoh has introduced a plot for Self-Sustainability which includes community vegetable and herb plots. This project is the result of a joint venture between IFSSA, UMK and the Pahang community



Food Processing Technology and Agricultural Basic Dissemination Program. A Corn Tortilla and Chips manufacturing workshop was held at the Entrepreneur Guidance Center (PBU) Melor Kelantan on 15 August 2022 by IFSSA for entrepreneurs who have registered under the PBU, State of Kelantan.

## LEARNING & STUDENTS



Student graduates in agriculture and aquaculture courses in 2022



Various activities have been held in promoting SDG 2, which involved the students and mainly focussed on achieving food security, improving nutrition, and promoting sustainable agriculture. Students were exposed to pineapple cultivation, farm management, and also activities with community in Kelantan.

# 3 GOOD HEALTH AND WELL-BEING



## SDG 3 : GOOD HEALTH AND WELL-BEING

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



**Activities**

**15**



**Research Grant**

**15**



**Grant Provision**

**RM 731**  
Thousand



**Publications**

**1473**



**Citations**

**6360**



**SDG related course Unit**

**27**

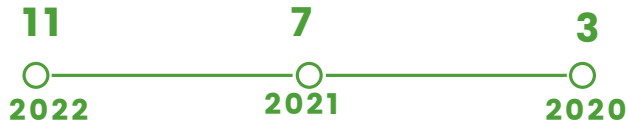


## UNIVERSITY HEALTH CENTER (PKU)

In line with its commitment to prioritizing student well-being, Universiti Malaysia Kelantan (UMK) has equipped each campus with a health center, offering various medical treatment facilities and services. The health center is designed to provide students comprehensive care, including outpatient treatment, emergency services, dental treatment, and public health initiatives.

## COMMUNITY ENGAGEMENT

### Blood Donation Program



UMK is aware of its responsibility in taking care of the well being of the community. Therefore, UMK always welcomes health bodies to donate blood at UMK where it have a positive impact on the well-being of individuals in need. Donating blood is a way to give the gift of life to others and contribute to the greater good of society.



## LEARNING & STUDENTS

### Mental Health Support

UMK Health Center with counseling unit provides mental health clinics for every students who need assistance.

### Free-Smoking Clinic

Free smoking clinics were provided to the UMK staff and students which need help in stop smoking.

### Dental Clinics

Education regarding dental health were also provided to all the students and staff where UMK has their own.

### Student Counseling and Career Section

Counseling services are managed by certified counselors who can conduct guidance and counseling ethically. This service is provided to all students either voluntarily or referral by certain parties.



# 4 QUALITY EDUCATION



## SDG 4 : QUALITY EDUCATION

*“Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all”*



**Activities**

**20**



**Research Grant**

**15**



**Grant Provision**

**RM 731  
Thousand**



**Publications**

**1473**



**Citations**

**6360**



**SDG related course Unit**

**27**

## COMMUNITY ENGAGEMENT



### FBKT Cakna Komuniti

This program was held for the first time on 26 November 2022, located in Lata Renyuk, Jeli Kelantan. This program is a community service program that aims to bring FBKT people closer to the community in Kampung Renyuk, Jeli Kelantan.



### UMK Carnival Research and Innovation (CRI) 2022

This yearly carnival provides a platform for innovators worldwide, from primary schools to universities in various fields and disciplines to present their innovations and share knowledge and best practices with panels from industry and academicians.

### Cloud Academy Day with Alibaba

The Department of Data Science (JSD) and the Institute of Artificial Intelligence and Big Data (AIBIG) have organized the Cloud Academy Day program with Alibaba Cloud. Through the Cloud Academy Day program, students can learn more about Alibaba Cloud and how it supports all Alibaba Group businesses. Students can also learn how to self-activate Elastic Compute Service (ECS) on Alibaba Cloud and can collect points for the MY Digital Talent in U competition



## CENTRE OF EXCELLENCE AND ACADEMIC DEVELOPMENT (CAED)

CAED is a center under the Office of the Deputy Vice-Chancellor (Academic and International), Universiti Malaysia Kelantan (UMK). CAED manages all teaching and learning innovations, academic leadership, curriculum development, and assessment and evaluation.

## LEARNING & STUDENTS



### Massive Open Online Courses (MOOC)

Start your online learning journey at Universiti Malaysia Kelantan. Improve your knowledge. Let's learn from our experts.



### Massive Open Online Courses (MOOCs)

MOOCs are free online courses providing affordable and flexible learning. They offer quality education at scale. Professional development programs train lecturers, while workshops enhance teaching and learning, aiming to deliver accessible education and improve effectiveness.

### Library and Open Access

Our Office of Library and Knowledge Management in three campuses provide endless reference using library digital webopac where we can find books, ebooks, journals, movies, music, docs, and more.

### American Corner

American Corner at The Office of Library and Knowledge Management, Universiti Malaysia Kelantan (UMK) was officiated by signing of Memorandum of Understanding (MoU) between UMK and US Embassy, Public Affairs Section. The main objective is to establish a corner which will gather materials about the US and organize activities which will be benefited by UMK community and the local community.



PhD program : 7  
Masters program : 12  
Degree Programmes : 29  
Foundation Program : 3



**5** GENDER  
EQUALITY



**SDG 5 :  
GENDER  
EQUALITY**

*“Achieve gender equality and empower all women and girls”*



**Activities**

**2**



**Research Grant**

**19**



**Grant Provision**

**RM 1.5  
Million**



**Publications**

**217**



**Citations**

**818**



**SDG related course Unit**

**15**



Universiti Malaysia Kelantan (UMK), through the Global Entrepreneurship and Innovation Research Center (GERIC) created the Women's Entrepreneurship and Leadership Network (WELL) with the aim of connecting the university with women's associations and NGOs to help

"Empowering Women Entrepreneur" program in collaboration with UMK and WI (Johor Women's Association).

WI- Women Institute is the oldest women's organization, established in 1958, whose original objective is to provide SKILLS to women, especially in cooking, sewing, and handicrafts. With UMK's 'Women Entrepreneurship and Leadership Linkages' (WELL), these skills will be developed into ENTREPRENEURSHIP.



LEARNING & STUDENTS

A total of 80 female students of Universiti Malaysia Kelantan (UMK) attended the Young Women's Professionalism seminar. This program also discusses current issues and challenges, especially women from various disciplines, such as personality, love, ambitions, women's lives, and life on the university campus.



a. Degree



b. Masters



c. PhD



d. Foundation



e. MBA



f. DBA



g. Staff



Women and sports at UMK

UMK never discriminates against female students and employees; they are given equal rights in various administrative, management, and sports opportunities. UMK is very proud of its students and staff for their achievements in various sports.



# 6 CLEAN WATER AND SANITATION



## SDG 6 : CLEAN WATER AND SANITATION

*“Ensure availability and sustainable management of water and sanitation for all”*



**Activities**

**18**



**Research Grant**

**16**



**Grant Provision**

RM **383**  
Thousand



**Publications**

**356**



**Citations**

**1484**



**SDG related course Unit**

**28**

# COMMUNITY ENGAGEMENT



## Bringing Clean Water to MRSM Tumpat: Our Earth Sciences Faculty's Mission

The Faculty of Earth Sciences contributes expertise in the field of Water to MRSM Tumpat, which has been plagued by water problems for 12 years for the use of 1000 people.

## LEARNING & STUDENTS



## Empowering Communities: GREAT and UM Join Forces to Enhance Water Quality in Bachok

GREAT was invited together with researchers from the University of Malaya (UM) led by Prof Ir Dr Faridah Othman to carry out services to determine water quality and suggest suitable water treatment technology for communities around Bachok district.



## Empowering Tomorrow's Water Stewards: Unleash the Power of Sustainable Science

We offer cutting-edge education in clean water and sanitation. For example, Environmental Sustainability Science students learn about water treatment technology and hydrology. Our postgraduate programs in natural resource management and sustainable sciences focus on using science and technology to maintain a balanced environment, promoting a technology-savvy society. Sustainable Science underscores the use of integrated science and technology in environmental management for sustainable development and improved quality of life.

### Student Activities :

- Kem Pemimpin Muda Perihatin Air Peringkat Kebangsaan 2022 on 27-29 March 2022
- Earth Camp 4.0 on 27-29th October 2022
- Academic Visit to Air Kelantan Sdn. Bhd on 4th July 2022
- Field learning program for Environmental Sustainability Students on 16th June 2022



7 AFFORDABLE AND CLEAN ENERGY



# SDG 6 : AFFORDABLE AND CLEAN ENERGY

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



**Activities**

**18**



**Research Grant**

**4**



**Grant Provision**

**RM 164  
Thousand**



**Publications**

**539**



**Citations**

**3469**

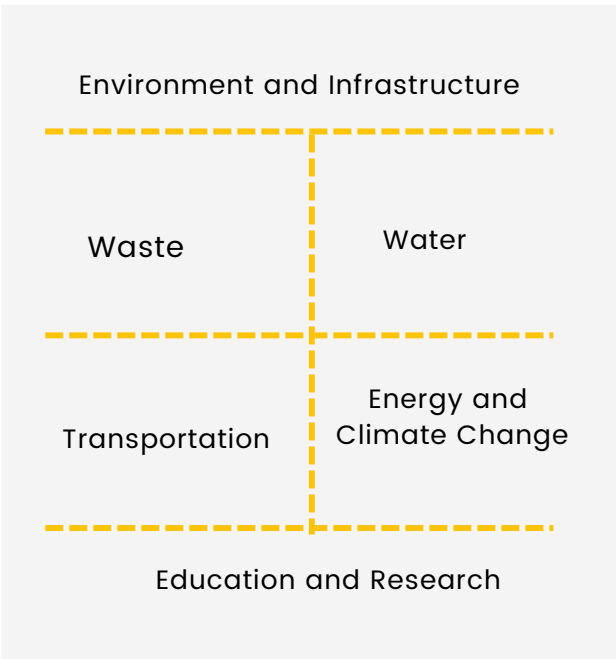


**SDG related course Unit**

**15**

# GREEN CAMPUS MASTERPLAN 2020-2025

Pelan Induk Kampus Hijau UMK 2020-2025 is a policy document that covers the management guideline for six areas which is :



Natural lighting buildings



Natural Ventilation buildings



## COMMUNITY ENGAGEMENTS



### MOF Social Enterprise -Solar Fish Drying

Design development and testing of commercial scale hybrid solar dryer for drying fish. This was fund by the Ministry of Finance to ensure that the project work well through the platform provided by UMK and ultimately impact the target group of B40 and asnaf including UMK students to do enterprise or business.



### Bamboo energy pellet collaboration with (Ain Biomass Sdn. Bhd.)

Our collaboration with Ain Biomass Sdn. Bhd focuses on bamboo energy pellet production. Together, we aim to develop and produce sustainable biomass pellets using bamboo as a renewable energy source. This initiative aligns with our commitment to environmentally friendly energy solutions and contributes to a greener future.



## LEARNING & STUDENTS



Three conference was held which is RCSST 2022, Bioengineering and Technology Symposium 2022 and Materials Technology Challenge. This conferences cover the Energy Technology topics which promotes local community to learn about the importance of energy efficiency and clean energy.

# 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”*



**Activities**

**22**



**Research Grant**

**57**



**Grant Provision**

RM **3.4**  
Million



**Publications**

**313**



**Citations**

**1486**



**SDG related course Unit**

**81**

## GLOBAL ENTREPRENEURSHIP RESEARCH AND INNOVATION CENTRE (GERIC)

GERIC a place where dedicated teams work around the clock to tackle critical challenges. We empower our community with innovative ideas to thrive in a constantly changing world. As an Enterprise Innovation Lab, we help businesses navigate challenges and excel. We collaborate with public and private organizations to achieve sustained success. We also work with government agencies to create community-focused policies. Through the Ignite Venture Lab, we support startups and high-impact businesses. We share our insights through various channels to make the world smarter and more innovative.



GLOBAL ENTREPRENEURSHIP RESEARCH AND INNOVATION CENTRE



INSTITUT PERUSAHAAN KECIL DAN SEDERHANA

## INSTITUTE FOR SMALL MEDIUM ENTERPRISES (ISME)

Institute for a Small & Medium Enterprises (ISME) is set up as a center of excellence which focus on business incubators, market intelligence for SMEs, research and development and commercialization, post-graduate programs and lifelong learning programs.



## COMMUNITY ENGAGEMENT



UMK through the Institute of Small and Medium Enterprises (ISME), Kelantan, Entrepreneurship Institute (UMKEI) in collaboration with the People's Trust Council (MARA) is implementing the Entrepreneur Certification Program - Business Enrichment, Standardization And Transformation (BEST). This program has been participated by eleven (11) companies in obtaining Halal Certification and MeSTI Certification.

## LEARNING & STUDENTS



### UMK: Pioneering Progress and Prosperity through SDG 8

Universiti Malaysia Kelantan (UMK) recognizes the significance of Sustainable Development Goal 8 (SDG 8) in the global agenda. SDG 8 aims to promote sustained, inclusive, and sustainable economic growth, employment, and decent work for all. UMK's commitment to this goal is reflected in its various initiatives and programs.

### Entrepreneurship and Job Creation

Entrepreneurship and Job Creation - UMK actively supports entrepreneurship and job creation. The university provides students with the skills and knowledge needed to become successful entrepreneurs or valuable contributors to the job market

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**SDG 9 :  
INDUSTRY,  
INNOVATION AND  
INFRASTRUCTURE**

*“ Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation”*



**Activities**

**20**



**Research Grant**

**8**



**Grant Provision**

**RM 655  
Million**



**Publications**

**381**



**Citations**

**1840**



**SDG related course Unit**

**15**

# COMMUNITY ENGAGEMENT



International Higher Education Institution Creation Conference and Expo (PECIPTA'22) - Innovation, Creativity, Technology, Entrepreneurship and Society

Universiti Malaysia Kelantan (UMK) co-hosts the International Higher Education Institution Creation Conference and Expo (PECIPTA'22) organized by the Ministry of Higher Education (KPT) in a hybrid manner, at the Tuanku Chancellor's Hall (DTC), Bachok, Kelantan, starting 1st to 3rd November 2022 featuring a total of 433 projects involving the participation of 20 public universities, including polytechnics and community colleges, as well as 23 private universities, as well as the involvement of school students. PECIPTA 2022 will be a global stage to encourage and increase strategic collaboration between higher education institutions with the industry sector and external parties that form a strategic collaboration that will bring many benefits to both researchers and industry



## Research Income per annum

STEM  
**RM 1.01<sub>m</sub>**  
 Arts & Humanities /  
 Social Sciences  
**RM 193.3<sub>k</sub>**  
 Medicine  
**RM 50<sub>k</sub>**

## UMK Researcher at Malaysian Technology Expo 2022 - SDG International Innovation award and expo 2022

Six (6) UMK researchers have been acknowledged in fields related to the SDGs at Malaysia Technology Expo 2022, this proves that UMK always supports research, innovation and learning related to the SDGs.



## LEARNING & STUDENTS

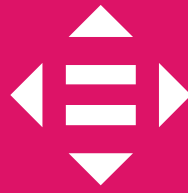


## Fostering Innovation and Entrepreneurship: Bridging Academia and Industry

We deliver undergraduates and postgraduate courses in innovation and entrepreneurship through our Materials Technology, Bioindustrial Technology and Architecture courses. We integrated industrial experience into wide range of science and social science programmes



**10** REDUCED INEQUALITIES



**SDG 10 :  
REDUCED  
INEQUALITIES**

*“Reduce inequality within and among countries”*



**Activities**

**19**



**Research Grant**

**1**



**Grant Provision**

**RM 250  
Thousand**



**Publications**

**73**



**Citations**

**216**



**SDG related course Unit**

**4**

## COMMUNITY ENGAGEMENT



Closing Ceremony of the Entrepreneurship Empowerment Program for Disabled People (OKU) at UMK Bachok

Human and Spiritual Excellence program with the participants of the Kacuk Village Poultry Project. Participants of the Kampung Kacuk Poultry Project consist of people with disabilities who live in the Kelantan State Rehabilitation Council



*Majlis Penutup*  
**PROGRAM PEMERKASAAN**  
 KEUSAHAWANAN KUMPULAN ORANG KURANG UPAYA (OKU) KELANTAN

27 SEPTEMBER 2022 (SELASA)  
 12:30 PETANG  
 BILIK KA01S, BANGUNAN BPA, UMK




Business Pitching Exercise and Closing Ceremony for the Kelantan Disabled Group Entrepreneurship Empowerment Program

**MODUL PEMERKASAAN KEUSAHAWANAN KUMPULAN OKU KELANTAN**

**MODUL 3: ASAS KREATIVITI DAN INOVASI DALAM KEUSAHAWANAN**

**PN FADHILAHANIM ARYANI BINTI ABDULLAH**  
 Pensyarah  
 Fakulti Hospitaliti, Pelancongan Dan Kesejahteraan  
 Universiti Malaysia Kelantan

16 April 2022 (Sabtu)  
 08:30 am - 02:00 pm

Ruang Kuliah KA01T,  
 Bangunan Pentadbiran & Akademik (BPA),  
 Dewan Tuanku Canselor, UMK Bachok

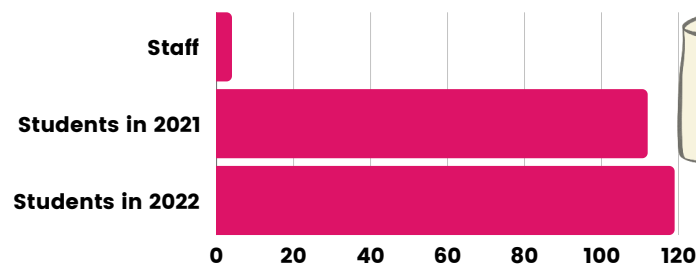


InsPeK FITRA Incubator (FITRA II) INSTITUT PENYELIDIKAN & PENGURUSAN KEMISKINAN (InsPeK)

PEMERKASAAN KEUSAHAWANAN KUMPULAN OKU KELANTAN

Workshop Module 3 (Basics of Creativity and Innovation in Entrepreneurship) for the Entrepreneurship Empowerment Project for the Disabled Kelantan Group at UMK Bachok

### Statistic of OKU at UMK



## LEARNING & STUDENTS

A 'Meet & Greet' and 'Hi Tea' meeting of disabled students with the Deputy Vice Chancellor (Student and Alumni Affairs) was held at BVCoffee, UMK Bachok.

A total of 10 students consisting of Kota Campus students and UMK Bachok students attended this meeting.



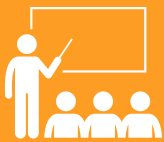
The objective of this meeting is as a friendly session in addition to having the opportunity to get to know the students more closely and share information and plans that will be implemented by OKU students

**11 SUSTAINABLE CITIES AND COMMUNITIES**



**SDG 11 :  
SUSTAINABLE  
CITIES AND  
COMMUNITIES**

*“Make cities and human settlements inclusive, safe, resilient, and sustainable”*



**Activities**

**21**



**Research Grant**

**16**



**Grant Provision**

**RM 1.4  
Million**



**Publications**

**339**



**Citations**

**1871**



**SDG related course Unit**

**132**

## COMMUNITY ENGAGEMENT



### Smart campus

UMK's smart campus consists of various initiatives including the Free Shuttle Bus on Campus, Zero Emission Vehicle (ZEV) on campus, where the bicycles provided by the university at no charge and pedestrian path. This initiative also cares about the facilities for the disabled to help them in their daily lives

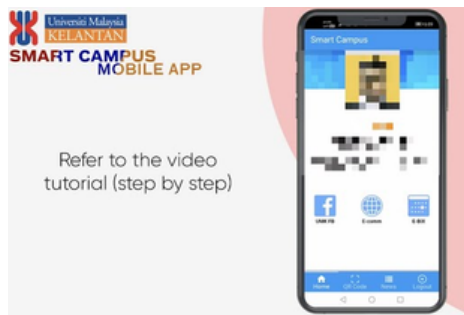


### Measured Painting Exhibition

The Office of Library and Knowledge Management (PKI) Bachok in collaboration with the Department of Architecture, Faculty of Architecture and Ekistics (FSE) is holding a 2023 Measured Painting Exhibition. This activities aims to utilize art to celebrate and preserve cultural heritage, fostering sustainable cities and communities



## LEARNING & STUDENTS

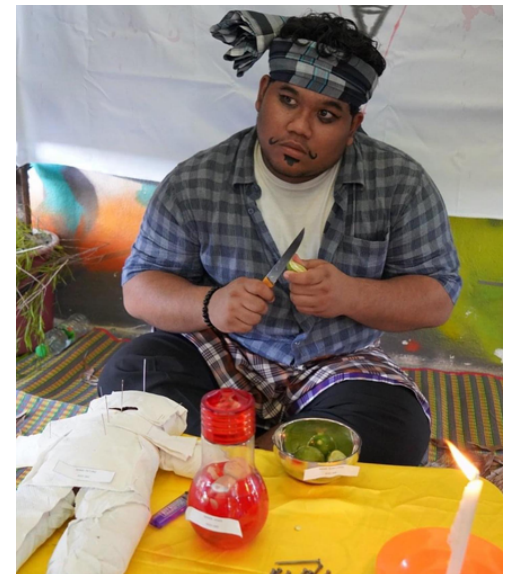
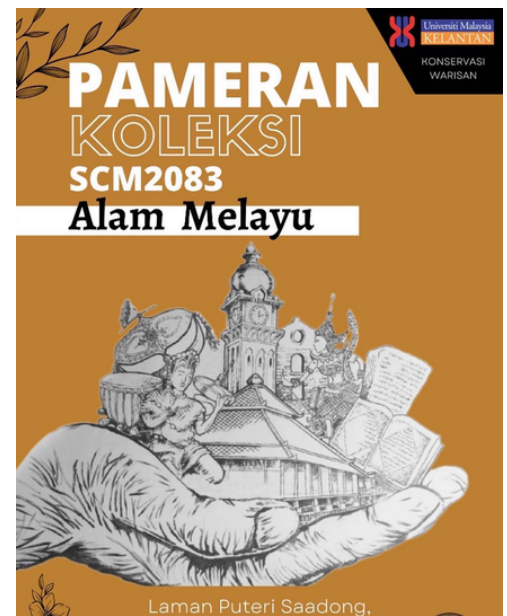


### eCampus UMK

E-campus Uni is to provide accessible and quality higher education through online and distance learning, addressing the needs of diverse learners and promoting lifelong learning.

### Preserving the Past, Shaping the Future: Where Heritage and Innovation Unite

Through our Heritage study courses, students gain a comprehensive understanding of cultural heritage and preservation. These courses encompass a wide range of cultural and legacy topics, instilling in graduates not only technical skills but also innovative and ethical perspectives on cultural heritage. Additionally, our Faculty of Architecture and Ekistics offers architecture courses that emphasize sustainability in design.



### Malay Nature Collection Exhibition

This exhibition aims to educate, inspire, and foster an appreciation for cultural heritage, cultivating a sense of responsibility and promoting conservation among the university community and beyond. The exhibition is performed by students from Faculty of creative technology and heritage.

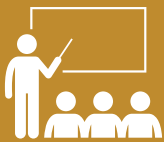


12 RESPONSIBLE CONSUMPTION AND PRODUCTION



# SDG 12 : RESPONSIBLE CONSUMPTION AND PRODUCTION

*“Ensure sustainable consumption and production patterns”*



**Activities**

**10**



**Research Grant**

**13**



**Grant Provision**

RM **683**  
Thousand



**Publications**

**832**



**Citations**

**4547**



**SDG related course Unit**

**12**



## COMMUNITY ENGAGEMENT

Universiti Malaysia Kelantan intends and strives to make every campus in UMK a Green and Sustainable Campus. Jeli Campus UMK strongly supports the wishes of the University and for that purpose, Jeli Campus UMK implements the Go Green Campaign which stipulates no use of plastic and polystyrene as one of the efforts to make Jeli Campus a green campus.



### FSB Wealth Hub

The FSB Wealth Hub was established to support the SDGs which emphasize responsible consumption and production. In this program, the hub managed to collect 534kg of UCO and 200kg of e-waste.

## ENVIRONMENTAL POLICY OF UMK

The management of UMK is committed and resolute to ensure effective environmental management to create a safe and healthy workplace environment for all staff as well as party dealing with UMK in accordance with Malaysian legal through 5 policy with covers the sustainable environmental issue, safety and healthy working culture, sustainable working condition and encourage staff to contribute towards environmental sustainability .

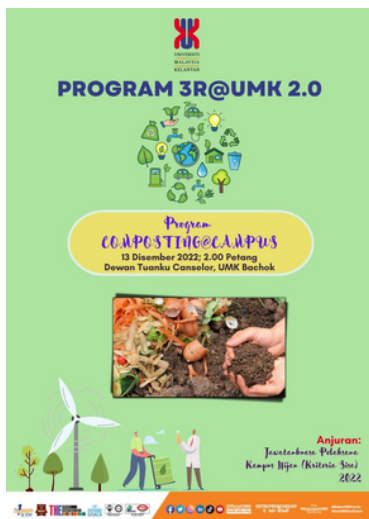


### Sustainability in Every Course: Nurturing Tomorrow's Eco-Champions

Our student learn about sustainable consumption and production through a range of program Waste management and pollution prevention course , Environmental risk assessment course ,Instrumentation and environmental analysis course and Environmental impact assessment course.

COMPOSTING@CAMPUS is one of the activities in the 3R@UMK PROGRAM organized by the UMK Green Campus Implementation Committee (Waste Criteria).

## LEARNING & STUDENTS



### Sinergi Lestari Club

Sinergi Lestari Club, is a student club which encourages awareness of issues related to resource management, food waste, and responsible consumption among the university community. Additionally, the club conduct programs or projects emphasizing the need to reduce waste and maximize efficiency in resource utilization.

**13** CLIMATE ACTION



# SDG 13 : CLIMATE ACTION

*“Take urgent action to combat climate change and its impacts”*



**Activities**

**23**



**Research Grant**

**1**



**Grant Provision**

RM **5.5**  
Million



**Publications**

**83**



**Citations**

**782**



**SDG related course Unit**

**4**

# COMMUNITY ENGAGEMENT

## Banding Island Mini Expedition Program (BMX 2022)



Banding Island Mini Expedition Program 2022 or better known as Banding Mini Expedition (BMX 2022) organized by the Faculty of Earth Sciences in collaboration with UMK-Tropical Rainforest Research Center (UMK-TRaCe) was conducted with the presence of 58 researchers who conducted research covering various themes including biodiversity (flora, fauna), hydrology, geo-heritage, geoscience, Natural Resource Entrepreneurship, Tourism (Eco, Edu, Adventure), GIS Mapping, Land, Habitat Risk Assessment, Socioeconomics & Environmental Sustainability (including big data & climate change).

## 4th International Conference on Tropical Resources and Sustainable Sciences (CTReSS 4.0)



### Webinar

Webinar session on low carbon development by Faculty of Earth Science (FSB)

FEES	
	LOCAL INTERNATIONAL
<b>PRESENTER</b>	
Early Bird	RM600.00 USD100.00
Normal	RM650.00 USD100.00
<b>STUDENT</b>	
Early Bird	RM500.00 USD100.00
Normal	RM550.00 USD100.00
<b>PARTICIPANT</b>	
Non-Presenter	RM200.00 USD100.00

# LEARNING & STUDENTS



## Environmental week & Earth Hour

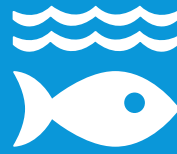
Environmental Week and Earth Hour at FSB UMK promote awareness about environmental issues and encourage actions to conserve energy and protect the earth's resources

## 1 Million Tree Programme

Students from the Faculty of Earth Sciences, Universiti Malaysia Kelantan have participated in the Green Shoot Initiative by UMW together with its strategic partners Yayasan Hijau and Malaysia Nature Society (MNS). UMW aims to plant 300,000 trees under this initiative. A total of 125 students of Sustainability Science and Natural Resource Science have participated in the mangrove planting program located at Pantai Seri Tujoh, Tumpat.



14 LIFE BELOW WATER



# SDG 14 : LIFE BELOW WATER

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



**Activities**

**19**



**Research Grant**

**2**



**Grant Provision**

RM **5.5**  
Million



**Publications**

**134**



**Citations**

**817**



**SDG related course Unit**

**11**

# COMMUNITY ENGAGEMENT

## Food incubator (FOOD-i).



one of the 6 incubators under the InsPeK Social Enterprise & Innovation Park (iSEe) and is located in the community area, namely in Fishermen's Resettlement (PSN) in Tok Bali, PASIR PUTEH.

The aim is to work together with low-income and poor communities to increase income through research activities, as well as capacity building related to food technology and agriculture, further together on food security issues.



## Tilapia and Patin Fish Farming Program in Kampung Jerimbong

This project aims to help the community regarding the aquaculture activity which focussed on tilapia and patin fish farming

# LEARNING & STUDENTS

The aim of the U4S project is to empower youth as Fishing Tourism Ambassadors, fostering environmental awareness and sustainable tourism in the community.



## Development of Lobster Farming Entrepreneurship Training

The aim of the project is to provide comprehensive training in lobster farming entrepreneurship, enabling individuals to develop sustainable businesses and contribute to the aquaculture industry's growth.



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”*



**Activities**

**22**



**Research Grant**

**16**



**Grant Provision**

RM **6.0**  
Million



**Publications**

**266**



**Citations**

**771**



**SDG related course Unit**

**35**

# UMK TROPICAL RAINFOREST RESEARCH CENTRE (TRACE)



UMK Trace as a research center or living lab that will benefit three UMK faculties namely the Faculty of Earth Science, the Faculty of Hospitality, Tourism & Wellness and the Faculty of Creative Technology and Heritage. UMK on Banding Island will become a hub especially for researchers from both inside and outside the country who want to explore the treasures of the Rain Forest Complex which covers an area of 300,000 hectares and is one of the oldest forests in the world over 130 million years old

## LEARNING & STUDENTS



### Conservation of Rafflesia

In the webinar on Rafflesia conservation, we explored vital strategies to protect these rare and endangered flowers, emphasizing the importance of habitat preservation and public awareness



### Conservation is conservation

This program aims to safeguard natural resources, wildlife, and ecosystems through various strategies, including habitat protection, sustainable practices, and public engagement.

## COMMUNITY ENGAGEMENT



### UNESCO WORLD HERITAGE VOLUNTEERS, MALAYSIA 2022- Together in TRaCe-ing Rainforest Biodiversity, Culture and Education for Preservation and Conservation of Royal Belum State Park, Malaysia

UMK-TRaCe in collaboration with National Commission for UNESCO and Pulau Banding Foundation is organising the World Heritage Volunteers Programme for Royal Belum State Park, Malaysia



"Igniting the Spark" - Introduction to the Conservation Journey

**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



# SDG 16 : PEACE, JUSTICE AND STRONG INSTITUTION

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



**Activities**

**19**



**Research Grant**

**1**



**Grant Provision**

RM **80**  
Thousand



**Publications**

**88**



**Citations**

**289**



**SDG related course Unit**

**19**



### Integrity Unit

The Integrity Unit of Universiti Malaysia Kelantan (UMK) was approved for establishment on 11 March 2014 by the University Management Committee (JPU) Meeting No. 3 of 2014 (131st Time) as stated in Service Circular No. 6 of 2013. This unit responsible for Governance, Integrity Strengthening, Detection and Verification, Complaint Management, Compliance and Investigation.

## 2022 Integrity Unleashed: Elevating Trust and Transparency all Year

- JAN • Pre Committee Meeting Anti-corruption (JAR)
- FEB • Discussion Direction Committee Meeting Anti-corruption (JAR) UMK Together with the Administration Division Public Sector Management (BUTSA), Anti-Corruption Commission Malaysia (MACC)
- MARCH • Risk Management Plan Workshop Corruption (CRM) and Development Organizational Anti-Corruption Plan (OACP) UMK
- APRIL • Plan Refinement Workshop Corruption Risk Management (CRM) and Plan Anti-corruption Organization (OACP)
- MEI • An Academic Integrity Strengthening Program
- JUN • A University Administrator's Integrity Strengthening Program
- OCT • Program to strengthen the integrity of the application and implementation of the personal protection act 2010 in public universities
- DEC • Anti-corruption Plan Book Launch Universiti Malaysia Kelantan and integrity day celebration

## LEARNING & STUDENTS

# 92

Registered student clubs in 2022



Students Representative Council 2022/2023



17 PARTNERSHIPS FOR THE GOALS



# SDG 17 : PARTNERSHIP FOR THE GOALS

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



**Activities**

**10**



**Research Grant**

**289**



**Grant Provision**

**RM16.5  
Million**



**Publications**

**6101**



**Citations**

**28930**



**SDG related course Unit**

**19**



## UMK's Ongoing Commitment to SDGs: Building a Better University World

The Publication and Rating Division (PRD) serves as a pivotal hub in UMK's mission to realize the 17 SDG goals within university development. It establishes dedicated task forces for each SDG to collect data and devises strategies. Additionally, PRD fosters collaboration between faculties and research centers, promoting public engagement, sharing research, and inspiring informed discussions, debates, and creativity with diverse audiences both locally and internationally."

## Standing in the eyes of the world- UMK Listed Times Higher Education (THE) Global Impact Ranking (GIR) 2022

UMK excelled in the Times Higher Education Global Impact Ranking 2022, securing a prominent position among global universities. The university's commitment to sustainability, innovation, and societal impact showcased its dedication to the United Nations' Sustainable Development Goals, reflecting UMK's ongoing pursuit of excellence on a global stage



**CALL FOR PAPERS**

**TOPIC OF INTEREST**

- Biotechnology • Environmental Technology • Agricultural Technology • Materials Science and Technology • Wood and Forest Technology • Energy Technology • Mining and Mineral Technology

**IMPORTANT DEADLINES**

Abstract Submission	30 <sup>th</sup> June 2022
Full Paper Submission	29 <sup>th</sup> July 2022
Payment	15 <sup>th</sup> July 2022

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Faculty of Engineering and Technology  
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✉ confbet@umk.edu.my

**CALL FOR PAPERS**

**VIRTUAL CONFERENCE**

**4<sup>th</sup> INTERNATIONAL CONFERENCE ON TROPICAL RESOURCES AND SUSTAINABLE SCIENCE (CTRESS 4.0)**

Enhancing Lives and Livelihood Through Inclusive and Sustainable Management of Natural Resources

**IMPORTANT DATES**

10 April 2022	Deadline abstract submission (early bird)
20 April 2022	Deadline abstract submission (normal)
30 April 2022	Notification of acceptance
10 May 2022	Deadline for presenters
10 May 2022	Deadline for full paper submission
4-5 July 2022	CTRESS 4.0

**OBJECTIVES**

1. To provide a platform for academic researchers and practitioners from domestically and abroad to share experiences and research findings in the context of sustainable natural resource management.
2. To nurture multi-disciplinary research collaboration amongst academic, researchers and practitioners from within and outside the country towards environmental sustainability.

**SCOPE**

**TOPICS INCLUDE, BUT NOT LIMITED TO THE FOLLOWING TOPICS:**

1. Biological Diversity and Conservation
2. Sustainable and Technology
3. Atmospheric Science, soil, water, climate change, green technology
4. Geoscience
5. Marine and geology (linked to geo-heritage)
6. Social Issue Environmental
7. Other natural resources, environmental/impacts, governance, risk, policy, adaptation, law and environmental governance
8. Environmental Economics
9. Ecosystem services and biosphere products, economic sustainability, culture and recreation

**CONTACT US**

Organized by:  
FACULTY OF AGRI, FORESTRY AND FISHERIES  
UNIVERSITI MALAYSIA KELANTAN

**31<sup>st</sup> REGIONAL CONFERENCE ON SOLID STATE SCIENCE AND TECHNOLOGY 2022**

6<sup>th</sup>-8<sup>th</sup> SEPTEMBER 2022  
HOTEL PERSADA, KOTA BAHARU  
KELANTAN, MALAYSIA

**REGISTRATION**

All registration and submission can be done via the official website: <https://rcssst.umk.edu.my>

**FEES & PAYMENT DETAILS**

	Physical***	Online***
<b>Presenter</b>		
Member**	MYR 900	MYR 300
Non-member	MYR 1000	MYR 450
Student (local)	MYR 850	MYR 300
International	USD 300	USD 150
Student (International)	USD 250	USD 100
<b>Participant</b>		
Member** (Travel)	MYR 500	Free
Non-member**	MYR 600	Free

**IMPORTANT DEADLINE**

Call for abstract	01 FEBRUARY 2022
Abstract submission	31 <sup>st</sup> JULY 2022
Payment	28 <sup>th</sup> JULY 2022
Full paper Submission	08 <sup>th</sup> SEPTEMBER 2022

**PUBLICATION**

All submitted full papers will be published in Scopus or Mycils Indexed journals, depending on the quality of the manuscript after being reviewed by the respective journals.

**TOPIC OF INTEREST**

Advanced Materials Synthesis and Crystal Growth Technology

- Biomaterials
- Carbon and Related Materials
- Catalysis and Strains
- Devices and Materials for Biology and Medicine
- Electrochemical and Solid State
- Layers and Core-shell systems
- Membranes
- Materials and Energy
- Materials and Polymers
- Nanoscience and Nanotechnology
- Optical and Electronic Materials
- Organic Materials and Applications
- Physical Devices and Electronic Energy storage
- Polymers and Composites
- Semiconductors and Dielectrics
- Solid State Theory, Simulations and Computation
- Superconductors
- Thin Films and Nanostructures
- Nanoscience and Nanotechnology
- Crystallography
- Inorganic and Organic
- Biotechnology
- Other Solid State Research

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## International Conferences

Several international conferences will be held throughout 2022 with various themes related to the SDGs. The purpose of this conference is to increase awareness, publication and establish external relations with other countries in discussing the latest research, especially those related to SDG themes

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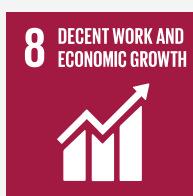
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e ISBN 978-629-98379-4-7



9 786299 1837947

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