



MINISTRY OF HIGHER EDUCATION  
MALAYSIA



COUNCIL OF LEADERSHIP &  
TRAINING  
MALAYSIAN UNIVERSITIES



YAYASAN  
PERKASA  
SISWA

İSTANBUL ÜNİVERSİTESİ, TURKIYE

## GLOBAL STUDENT LEADERSHIP SUMMIT 2024



# GSLS'24

NURTURING TOMORROW'S GLOBAL LEADERS

# HANDBOOK

## GSLS'24

08 ~ 14 SEPTEMBER 2024

Sponsored by:



TalentCorp  
GROUP OF COMPANIES

Host by:



# Foreword



**YBhg. Prof. Dr. Azlinda binti Azman**

*Director General of Higher Education  
Ministry of Higher Education Malaysia (MoHE)*

It is about making decisions that not only shape your destiny but also the destiny of your communities, your nation, and indeed, the entire world.

The Ministry of Higher Education Malaysia stands in full support of the 2nd Global Student Leadership Summit (GSL'S'24). This summit is perfectly aligned with one of our most critical objectives: the internationalization of higher education. We are firm believers that by connecting to the global community, we can share, learn, and innovate together, forging a brighter and more prosperous future for generations yet to come.

and the experiences you share here will resonate far beyond this event, influencing not only your individual journeys but the very course of our world. This summit is not just about preparing for the future; it is about creating the future. The wisdom you gather, the relationships you build, and the

Assalamualaikum w.b.t and Salam Sejahtera.

May peace, prosperity, and blessings be upon each and every one of you.

First and foremost, I wish to extend my deepest gratitude to the Malaysian University Training and Leadership Council (MAKLUM), the Department of Higher Education, the Ministry of Higher Education Malaysia, and Istanbul University, Türkiye, for their unwavering commitment to bringing this grand leadership summit to life.

This summit is not just an event; it is a beacon of hope and a symbol of our shared future. To the student leaders and dedicated staff who have invested their time, energy, and passion into this endeavor I commend you. Your tireless efforts are not only seen but deeply appreciated. As the Director General of the Department of Higher Education, Ministry of Higher Education, Malaysia I am inspired by the boundless potential, the relentless energy, and the visionary spirit that each of you brings to this summit. You are not just participants, you are the torchbearers of a new dawn, the architects of our world's future.

The theme of this summit, "Nurturing Tomorrow's Global Leaders," is not merely a slogan; it is a clarion call to action. It embodies the very essence of transformation and innovation. Leadership is not about titles or positions; it is about vision, integrity, and the courage to forge a path where none exists.

experiences you embrace here will resonate far beyond these walls, shaping not only your individual lives but the trajectory of our shared world.

Therefore, I urge you to seize this opportunity with both hands. Approach this summit with an open heart, a collaborative spirit, and an unyielding commitment to making a difference. The future of our world is yours to shape. Though I may not be there to witness the full extent of your achievements, I have absolute faith that you will rise to every challenge, overcome every obstacle, and lead with the courage and conviction that will define a new era.

May this summit ignite the flames of leadership within you, and may your journey here be the beginning of something truly extraordinary.

With my warmest wishes for success, let the summit commence!

**YBhg. Professor Datuk Dr. Azlinda binti Azman**  
**Director General of Higher Education**  
**Department of Higher Education**  
**Ministry of Higher Education Malaysia**

# Foreword

Greetings to all,



## Prof. Dr. Osman Bülent ZÜLFİKAR

*Rector of Istanbul University, Turkiye*

Like Malaysia, Istanbul University is also committed to empowering our students to drive positive change within the university community, the local community, and the world at large.

I hope that GSLs '24 will be just the beginning of a long-standing collaboration between Turkiye and Malaysia. I believe that summits organized together will both strengthen our ties and equip upcoming generations with the skills needed to navigate future challenges.

First and foremost, I would like to express my sincere gratitude to the Ministry of Higher Education Malaysia and The Malaysian University Leadership and Training Council (MAKLUM) for choosing Istanbul University, Turkiye, as the host for the 3rd Global Student Leadership Summit 2024 (GSLs '24).

I am delighted to welcome the GSLs '24 delegation. This summit provides a valuable opportunity for student leaders from diverse backgrounds to come together, share ideas, expand their networks, and form new connections. It also serves as an excellent platform to strengthen relationships and foster cooperation between Turkiye and Malaysia.

As the Rector of Istanbul University, I assure you that we are fully committed to supporting the successful execution of GSLs '24.

Hence, I extend my best wishes to all GSLs '24 participants and hope you have a successful and enriching experience here in Turkiye.

**Prof. Dr. Osman Bülent ZÜLFİKAR**

**Rector**

**Istanbul University, Turkiye**

# Foreword



**YBrs. Mr. Hirman bin Awang**

*Director of Student Affairs Division  
Department of Higher Education  
Ministry of Higher Education, Malaysia*

Through interactive workshops, panel discussions, and cultural immersion activities, participants will have the opportunity to learn from one another, share best practices, and explore innovative solutions to global challenges. This cross-cultural exchange not only fosters mutual understanding and respect but also lays the foundation for lasting partnerships and collaborations.

In closing, I would like to extend my heartfelt congratulations to the organising committee, the participating universities, and most importantly, the participants. Your dedication, passion, and willingness to step up and lead are truly inspiring. As you embark on the journey of change, remember that you are not only charting the future of your nation, but also the future of this world.

Bismillahirrahmanirrahim.

Assalamualaikum w.b.t and Salam Sejahtera,

Greetings to all,

It is with great enthusiasm that I extend my warmest greetings to all the participants of the Global Student Leadership Summit 2024 (GSLS '24). This year's theme, "Nurturing Tomorrow's Global Leaders," resonates deeply with the Ministry of Higher Education Malaysia's mission to empower our nation's future leaders and prepare them for the challenges of an increasingly interconnected world.

As the Director of the Student Affairs Division in the Ministry of Higher Education, I am proud to be part of an initiative that recognises the importance of developing well-rounded, globally-minded leaders. The GSLS '24, with its focus on cultural exchange, leadership development, and collaborative learning, provides an excellent platform for our students to hone their skills, broaden their perspectives, and forge lasting connections with their peers from around the world. In today's globalised landscape, the ability to navigate diverse cultures and perspectives is a critical skill for any aspiring leader. By bringing together students from Malaysia and beyond, the GSLS '24 encourages participants to step out of their comfort zones, challenge their assumptions, and embrace the richness that cultural diversity has to offer.

Last but not least, I want to express my sincere gratitude for your participation in this summit. Your presence contributed immensely to the event's success, and we truly appreciate your support. We also highly value your thoughts and feedback as we reflect on the event and look towards improving future experiences. May you have safe journey home.

Thank you and bon voyage!

**YBrs. Mr. Hirman bin Awang**  
**Director of Student Affairs Division**  
**Department of Higher Education**  
**Ministry of Higher Education, Malaysia**

# Foreword



**YBhg. Prof. Dr. Shaharum bin Shamsuddin**

*Deputy Vice-Chancellor (Student Development Affairs and Alumni), Universiti Sains Malaysia and Chairman of The Malaysian University Leadership and Training Council (MAKLUM)*

I am confident that participating in GSLS 2024 will provide invaluable knowledge, skills, and experiences to face today's challenges. As Chairman of MAKLUM, I reaffirm our commitment to SUPPORT government efforts to empower students, who are vital agents of positive change.

I also extend my congratulations and thanks to all GSLS 2024 participants for their enthusiasm. Your presence here at Istanbul University signifies significant steps toward self-empowerment.

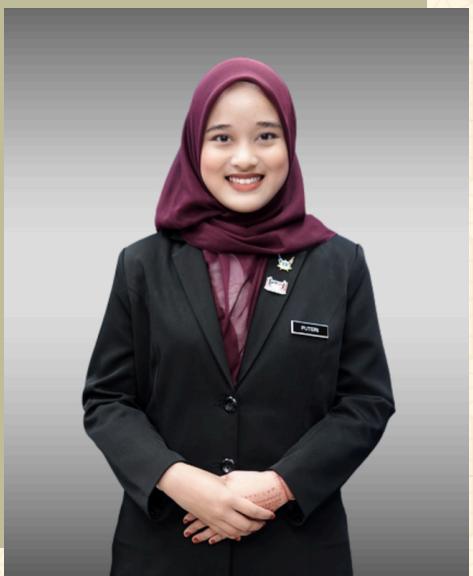
.Thank you.

Assalamualaikum wbt dan Salam Sejahtera.

First and foremost, I would like to extend my heartfelt Congratulations to the Department of Higher Education, the Ministry of Higher Education, and the University Leadership and Training Council of Malaysia (MAKLUM) for their exceptional work in organizing The Global Student Leadership Summit (GSLS 2024), in collaboration with the University Volunteer Council of Malaysia (MASKUM). I would also like to extend my sincere gratitude to Istanbul University, Turkiye, for graciously hosting this prestigious event.

GSLS 2024 represents a flagship initiative for MAKLUM this year, uniting students from diverse universities worldwide for scholarly discussions and idea exchanges. This initiative aims to cultivate a knowledgeable and aware generation well-versed in contemporary issues.

# Foreword



Ms. Puteri Khairunnissaq binti Mat Lazim  
*Executive Director of Global Student Leadership  
Summit 2024*

The community service component will enable participants to engage directly with local communities in Istanbul, allowing them to apply their leadership skills in real-world contexts and make a meaningful impact. Moreover, the study tour will offer an immersive experience into the diverse cultural and historical landscape of Istanbul, broadening students' global perspectives and enhancing their appreciation for different cultures. This holistic approach to leadership development is designed to equip students with the necessary skills, knowledge, and experiences to become effective and empathetic leaders in an increasingly interconnected world.

As the director of the program, I am immensely honored to welcome all participants to the Global Student Leadership Summit 2024, which will take place from September 8-14 in the historic and culturally rich city of Istanbul, Turkey. This prestigious program, organized by the Malaysian Universities Leadership and Training Council (MAKLUM) in partnership with the Ministry of Higher Education Malaysia, offers a unique and transformative opportunity for our students. The summit will feature a dynamic blend of activities including a conference for paper presentations, community service projects, and an enriching study tour. The conference will provide a platform for students to present their research and innovative ideas, fostering an environment of academic excellence and intellectual exchange.

I am confident that the Global Student Leadership Summit 2024 will not only enhance the leadership capabilities of our students but also inspire them to pursue their ambitions with a renewed sense of purpose and commitment. By participating in this summit, our students will have the opportunity to engage in meaningful dialogue, build lasting relationships, and develop a deeper understanding of the global community. I look forward to witnessing the growth and achievements of our students as they embark on this exciting journey. Together, let us embrace this opportunity to learn, grow, and contribute towards a better future.

# Introduction



## Background

The Global Student Leadership Summit 2024 (GSL'S'24) is a prestigious conference organized by The Ministry of Higher Education Malaysia (KPT) together with the Council for Leadership and Training of Malaysian Universities (MAKLUM)

in collaboration with MASKUM, Yayasan Perkasa Siswa (YPS), İstanbul Üniversitesi (IU). It is held at İstanbul Üniversitesi (IU), Türkiye from the 8th until the 14th of September 2024 with the theme "Nurturing Tomorrow's Global Leaders".

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## Objective

- To provide the participants with opportunity to exchange opinions among global student leaders.
- To provide experience in presenting on the Global level.
- To learn the culture and life of the local community through study tour.

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## The Scope

- Entrepreneurship & Finance
- Health And Wellness
- Technology & Innovation
- Talent, Art & Culture
- Community Service & Volunteerism
- Environmental Sustainability
- Leadership & Character Development

# Tentative

SEPTEMBER 07th ~ 14th , 2024  
FACULTY OF POLITICAL SCIENCES,  
ISTANBUL UNIVERSITY, TURKIYE

**SATURDAY -  
SUNDAY (07 - 08-  
09/2024)**

**5.00 AM -  
8.00 PM**

- Participants' Movement to Istanbul, Türkiye
- Accommodation Check-in & Rehearsal

**MONDAY  
(09/09/2024)**

**8.30 AM**

Participant registration at Istanbul University

**9.00 AM**

The Arrival of Guests

**9.30 AM**

- The Arrival of Prof. Dr. Osman Bülent ZÜLFİKAR, Rector of Istanbul University, Türkiye
- The Arrival of YBrs. Mr. Hirman bin Awang Director of Student Affairs Division Department of Higher Education Ministry of Higher Education Malaysia (MoHE)
- National Anthem of Türkiye "İstiklal Marsı"
- Interlude Performance

**9.40 PM**

Introductory Speech : Ms. Puteri Khairunnissaq binti Mat Lazim Program Director of GSLs '24

**9.45 PM**

Welcoming Speech : Prof. Dr. Osman Bülent ZÜLFİKAR Rector of İstanbul University, Türkiye

**10.00 AM**

Opening Ceremony:  
YBrs. Mr. Hirman bin Awang Director of Student Affairs Division Department of Higher Education Ministry of Higher Education Malaysia (MoHE)

**10.15 AM**

- Gimmick and GSLs '24 Montage Presentation
- Token of Appreciation
- Photography Session

**10.30 AM**

Tea Break

**11.00 AM**

Invited Speaker 1:

Title: Transformation Centre for People with Disability @ USM - An Evolution of Everlasting Hope.

Speaker:

YBhg. Prof. Dr. Shaharum bin Shamsuddin Deputy Vice-Chancellor (Student Development Affairs and Alumni), Universiti Sains Malaysia and Chairman of The Malaysian University Leadership and Training Council (MAKLUM)

# Tentative

SEPTEMBER 07th ~ 14th , 2024  
FACULTY OF POLITICAL SCIENCES,  
ISTANBUL UNIVERSITY, TURKIYE

**11.30 AM**

Invited Speaker 2:

Title: From Campus to Global Leadership: The Path Through Science

Speaker:

Assoc. Prof. Dr. Feyza Nur TUNCER-KILINÇ Head of Istanbul University International Academic Relations Department Institutional Erasmus Coordinator, Istanbul University, Turkiye

**12.00 PM**

Invited Speaker 3:

Title: Values-Based Leadership Towards Communiiversity (University for Community)

Speaker:

Dr. Zurina Abdul Ghani Director of Leadership Centre International Islamic University Malaysia (IIUM)

**12.15 PM**

Lunch

**1.00 PM**

Parallel Session 1

**3.00 PM**

Parallel Session 2

**5.00 PM**

Dismissal

**TUESDAY  
(10/9/2024)**

**9.00 AM**

Parallel Session 3

**11.00 AM**

Tea Break

**11.30 AM**

Campus Tour Session

**12.30 PM**

Lunch

# Tentative

SEPTEMBER 07th ~ 14th , 2024  
FACULTY OF POLITICAL SCIENCES,  
ISTANBUL UNIVERSITY, TURKIYE

**2.30 PM**

Leadership Dialogue Session :

Title : "Global Leadership: The Role of Student Leaders in Shaping A Better World"

Panel :

- **Mr. Syahril bin Ahmad Sofian**

President of Malaysian National Student Consultative Council (MPPK), Malaysia

- **Mr. Cheng Shao Yu**

Nanyang Technological University (NTU), Singapore

- **Mr. Zabiullah Najeeb**

Istanbul University, Turkiye

- **Mr. Madumarov Saidamalxon Asadullaevich**

Kazan Federal University, Russia

Moderator : **Mr. Wan Amsyar Hadie bin Wan Mahadi** Former President of Malaysian National Student Consultative Council (MPPK), Malaysia

**3.45 PM**

Invited Speaker 4:

Title : "Raising Future Global Leaders with Complexity Theory Approach"

Speaker:

Assoc. Prof. Dr. Gülistan Çiğdem YALÇIN Istanbul University, Turkiye

**4.15 PM**

Closing Ceremony:

Mrs. Mardiah binti Sabri Consul/Head of Chancery Consulate General of Malaysia, Istanbul

**4.30 PM**

Prize Giving Ceremony & Photography Session

**5.00 PM**

Closing Session

# Tentative

SEPTEMBER 07 th ~ 14th , 2024  
FACULTY OF POLITICAL SCIENCES,  
ISTANBUL UNIVERSITY, TURKIYE

**WEDNESDAY**  
**(11/09/2024)**

**8.00 AM -  
5.00 PM**

Study Tour: Kembara Ilmu dan Budaya “Kota Istanbul”  
Dress Code: Smart Casual  
\*(for participant in Package C only)

Istanbul Tour Day 1

1. Camlica Mosque
2. Grand Bazaar

**THURSDAY**  
**(12/09/2024)**

**8.00 AM -  
5.00 PM**

Study Tour: Kembara Ilmu dan Budaya “Kota Istanbul”  
Dress Code: Smart Casual

\*(for participant in Package C only)

\*(Check-out accommodation/ Return home for participant in Package B)

Istanbul Tour Day 2

1. Topkapi Palace (entrance fee not included)
2. Hagia Sophia
3. Sultanahmet Mosque (Blue Mosque)
4. Hippodrome

**FRIDAY**  
**(13/09/2024)**

**8.00 AM -  
5.00 PM**

Study Tour: Kembara Ilmu dan Budaya “Kota Istanbul”

Dress Code: Smart Casual

\*(for participant in Package C only)

Istanbul Tour Day 3

1. Taksim Square
2. Istiklal Street
3. Galataport

**SATURDAY**  
**(14/09/2024)**

**8.00 AM -  
11.00 PM**

- Check-out accommodation / Return home to Malaysia \*(for participants in Package C only)

# Tentative of Parallel Session

Parallel Session 1 Hall A

## Parallel Session 1 (Hall A)

Monday, 9th September 2024

13.00 P.M. - 15.00 P.M.

Time	Title	Presenter
13.00 p.m. - 13.10 p.m.	Evaluating The Impact of Leadership Training Programme 'Pemacu Warisan Siswa (PEWARIS)' on The Character Development of UTHM Students	<b>Amir Irfan Bin Ghaffar</b> (Universiti Tun Hussein Onn Malaysia)  Code : A3
13.15 p.m. - 13.25 p.m.	Empowering Universiti Utara Malaysia (UUM) Volunteers to Foster Safe Touch Awareness in Primary School Children	<b>Fatihah Binti Azali</b> (Universiti Utara Malaysia)  Code : B2
13.30 p.m. - 13.40 p.m.	Financial Technology (FinTech) and Entrepreneurship at UUM: From UUM Perspective.	<b>Umi Athirah Mohd Fauzi</b> (Universiti Utara Malaysia)  Code : C2
13.45 p.m. - 13.55 p.m.	The Effects of a Sport-Based Service-Learning Project on College Athletes' Civic	<b>Nur Aqilah Batrisyia Harisman</b> (Universiti Kebangsaan Malaysia)  Code : A7
14.00 p.m. - 14.10 p.m.	Alternative Transportation : Additional transportation provision programs affect the health and sustainability of the environment	<b>Jasriman Hassan</b> (Universiti Putra Malaysia)  Code : F1
14.15 p.m. - 14.25 p.m.	The Impact of Language Barrier on Students Individual Skills	<b>Nursyafiqah Farhana Mohammad Azha</b> (Universiti Sains Malaysia)  Code : A10
14.30 p.m. - 14.40 p.m.	Artificial Intelligence, Helper or Destroyer of Humanity?	<b>Yong Choon Kit</b> (Universiti Kebangsaan Malaysia)  Code : G3
14.45 p.m. - 14.55 p.m.	Empowering Marginalized Students through Leadership Roles.	<b>Muhammad Hafizzudin Bin Zolkifely</b> (Universiti Utara Malaysia)  Code : A13

# Tentative of Parallel Session

Parallel Session 1 (Hall B)

Monday, 9th September 2024

13.00 P.M. - 15.00 P.M.

**Parallel Session 1 Hall B**

Time	Title	Presenter
13.00 p.m. - 13.10 p.m.	Tuntutan Anak Bangsa Mencorak Destini Nasional	<b>Amir Nur Rashid bin Lizam</b> (Universiti Teknologi Mara)  Code : A33
13.15 p.m. - 13.25 p.m.	Leadership Development Is Character Development	<b>Muhammad Farhan Bin Kamal Bashah</b> (Universiti Kebangsaan Malaysia)  Code : A8
13.30 p.m. - 13.40 p.m.	Microwave Torrefaction of Empty Fruit Bunch (EFB) As Biomass Energy Source	<b>Muhammad Afif Shauqie Sairon</b> (Universiti Malaysia Pahang)  Code : D2
13.45 p.m. - 13.55 p.m.	Understanding NDUM Students Knowledge and Attitude to Sport Injury Management	<b>Mohamad Shamir Mohamad Amran</b> (Universiti Pertahanan Nasional Malaysia)  Code : F2
14.00 p.m. - 14.10 p.m.	Precision Symbol Recognition in Electrical Schematics : A deep Learning Approach Using YOLOVv8	<b>Muhammad Amir Nuruddin bin Abdul Jalil</b> (Universiti Malaysia Pahang)  Code : G5
14.15 p.m. - 14.25 p.m.	Student Empowerment Agenda Reimagined: Trailblazing Character Based Leadership Models.	<b>Nur Nazirah Binti Hisham</b> (Universiti Utara Malaysia)  Code : A11
14.30 p.m. - 14.40 p.m.	Technology For The Future: Empowering Digital Entrepreneurship In The Economy 4.0	<b>Siti Nur Amalin Aisyah Mohd Khir</b> (Universiti Malaysia Kelantan)  Code : G6
14.45 p.m. - 14.55 p.m.	Empowering Youth Among Students To Leader Through The Volunteerism Project : A Project of Smart Anchor	<b>Muhammad Shafiq Bin Shafiee</b> (Universiti Utara Malaysia)  Code : A14

# Tentative of Parallel Session

Parallel Session 1 Hall C

Parallel Session 1 (Hall C)

Monday, 9th September 2024

13.00 P.M. - 15.00 P.M.

Time	Title	Presenter
13.00 p.m. - 13.10 p.m.	The Role of the Student Affairs Department and INASIS Bank Rakyat in Developing A Holistic and Flexible Student Leadership	<b>Faeiq Shauqy Bin Kareem Semnard</b> (Universiti Utara Malaysia)  Code : A5
13.15 p.m. - 13.25 p.m.	Student Economic Gig Action Plan: Addressing Policy Gaps and Harnessing Technological Advancements in Higher Education	<b>Muhammad Izuan Faiz Bin Abdul Rahman</b> (Universiti Utara Malaysia)  Code : C1
13.30 p.m. - 13.40 p.m.	Understanding The Culture of Sugar Dating Among University Students in Malaysia	<b>Mohammad Noor Aiman Bin Hassan Nordin</b> (Universiti Utara Malaysia)  Code : E1
13.45 p.m. - 13.55 p.m.	Conceptualizing Malaysia as a Global Leader in Halal Logistics: A New Business Paradigm	<b>Nur Nazatul Nuha Binti Mohamad Nazar</b> (Universiti Utara Malaysia)  Code : G4
14.00 p.m. - 14.10 p.m.	Harnessing Empowerment Paradigms for Development of Student Leadership	<b>Azriq Rashid Bin Hussin</b> (Universiti Sains Malaysia)  Code : A12
14.15 p.m. - 14.25 p.m.	Post-AUKU Reforms: Implications for Leadership and Governance in Malaysian Universities	<b>Raja Muhammad Arif Afifuddin</b> (Universiti Kebangsaan Malaysia)  Code : A9
14.30 p.m. - 14.40 p.m.	Impact of My STEM Ambassador UPM Club on Students' STEM Engagement	<b>Muhammad Nazreen Bin Samuri</b> (Universiti Putra Malaysia)  Code : G7
14.45 p.m. - 14.55 p.m.	Buddies Global Symposium 2024 (BuGS24)	<b>Muhammad Ammar Mohd Salleh</b> (Universiti Putra Malaysia)  Code : A15

# Tentative of Parallel Session

Parallel Session 2 (Hall A)

Monday, 9th September 2024

15.00 P.M. - 17.00 P.M.

**Parallel Session 2 Hall A**

Time	Title	Presenter
15.00 p.m. - 15.10 p.m.	Empowering Future Leaders Through Student Solidarity	<b>Fariz Husni Bin Che Ghani</b> (Universiti Islam Antarabangsa Malaysia)  Code : A17
15.15 p.m. - 15.25 p.m.	Vertico Clothing	<b>Muhammad Hafidz Bin Sharul Izwan</b> (Universiti Putra Malaysia)  Code : G8
15.30 p.m. - 15.40 p.m.	Development of Ground System Terminal by UTHM Students for Nano-Scale Satellite	<b>Noratika Efendi</b> (Universiti Tun Hussein Onn Malaysia)  Code : G12
15.45 p.m. - 15.55 p.m.	Exploring the Entrepreneurial Journey of Asnaf Students: Lessons from Genba Bakery's Business Model at Universiti Sains Islam Malaysia	<b>Ibni Umar Abdul Aziz Bin Iswady Fazly</b> (Universiti Sains Islam Malaysia)  Code : C7
16.00 p.m. - 16.10 p.m.	Breaking Down Barriers: A Case Study on the Effectiveness on D.E.T.A.I.L in Advancing Disability Equality among Student Leaders	<b>Muhammad Irfan Rosdin</b> (Universiti Islam Antarabangsa Malaysia)  Code : A32
16.15 p.m. - 16.25 p.m.	Students' Perception on the Impact of Community Service and Volunteerism Experience on Social Skills at the Language Centre, National Defence University of Malaysia	<b>Ain Nuraisha Binti Mahazir</b> (Universiti Pertahanan Nasional Malaysia)  Code : B3
16.30 p.m. - 16.40 p.m.	The Structure Used in Tertiary Education Sponsorship Programme by MARA and Its Sustainability Impact to the University Students	<b>Muhammad Aqmal Najmi bin Mohd Aziz Harjit</b> (Universiti Islam Antarabangsa Malaysia)  Code : C5
16.45 p.m. - 16.55 p.m.	The Effectiveness of The Role of The Young Leaders In Encouraging The Young Generation To Develop Leadership Skills : Initiatives By Institute of Young Leaders	<b>Ram Erfan Zur Nuqman</b> (Universiti Teknologi Mara)  Code : A23

# Tentative of Parallel Session

## Parallel Session 2 Hall B

Parallel Session 2 (Hall B)

Monday, 9th September 2024

15.00 P.M. - 17.00 P.M.

Time	Title	Presenter
15.00 p.m. - 15.10 p.m.	Pertanian Tanpa Cangkul	<b>Ainina Nabilah Binti Shamsul Bahar</b> (Universiti Putra Malaysia)  Code : G9
15.15 p.m. - 15.25 p.m.	Woman In Leadership : Empowering Female Students Through Leadership Programmes	<b>Nini Syuryani Binti Zainudin</b> (Universiti Pendidikan Sultan Idris)  Code : A18
15.30 p.m. - 15.40 p.m.	Harnessing Technological Advancements in Enhancing Student Activities: Shifting from Hard Copy Document Method to Online System for KMUKM Financial Management	<b>Mariam Binti Masuan</b> (Universiti Kebangsaan Malaysia)  Code : G10
15.45 p.m. - 15.55 p.m.	Challenges Faced by University Spin-Off Company to Commercialization and Internationalization	<b>Siti Hajar Turneran</b> (Universiti Teknologi Malaysia)  Code : C4
16.00 p.m. - 16.10 p.m.	The Factor and Consequence of Low Quality Student Leaders in The Future	<b>Muhammad Airul Afzan Bin Azlan</b> (Universiti Sains Malaysia)  Code : A20
16.15 p.m. - 16.25 p.m.	The Study of Different Temperature for Carbon Storage in Carbonate Rock	<b>Muhammad Hakim bin Mohd Zain</b> (Universiti Teknologi Malaysia)  Code : D3
16.30 p.m. - 16.40 p.m.	The Superiority of Zapin Dance Influences The Development of Malay-Nusantara Culture	<b>Muhammad Farid Bin Zainal</b> (Universiti Malaysia Kelantan)  Code : E2
16.45 p.m. - 16.55 p.m.	The Predictive Roles of Peer Relations on Burnout Level among Fourth Year Counseling Students in Universiti Malaysia Sabah (UMS)	<b>Debra Palik @ Stanley</b> (Universiti Malaysia Sabah)  Code : F4

# Tentative of Parallel Session

Parallel Session 2 (Hall C)

Monday, 9th September 2024

15.00 P.M. - 17.00 P.M.

**Parallel Session 2 Hall C**

Time	Title	Presenter
15.00 p.m. - 15.10 p.m.	Effect of Kem Bina Insan Bitara To Enhance Leadership In Malaysia Madani Concept	<b>Amirul Haiqal Bin Amirrudin Bakri</b> (Universiti Pendidikan Sultan Idris)  Code : A19
15.15 p.m. - 15.25 p.m.	Artificial Intelligence Driven Personalisation In Education : A Pathway To Improve Learning	<b>Raja Nur Aliesha Binti Raja Husain</b> (Universiti Pendidikan Sultan Idris)  Code : G11
15.30 p.m. - 15.40 p.m.	Development of The Roboteacher Module For The Topic of Mechatronic Design in Form 3 Design And Technology Subject	<b>Mohamad Ikhwan Ramli</b> (Universiti Pendidikan Sultan Idris)  Code : G13
15.45 p.m. - 15.55 p.m.	Achieving Financial Autonomy: Income Strategies for Student Representative Councils	<b>Firdanish Rafique Mohd Hamid</b> (Universiti Kebangsaan Malaysia)  Code : C3
16.00 p.m. - 16.10 p.m.	Humanising Society For Sustainable Future	<b>Umairah Farisah Ahmad Yuzri</b> (Universiti Putra Malaysia)  Code : B4
16.15 p.m. - 16.25 p.m.	Evaluating the Influence of Leadership Engagement on Graduate Marketability and Career Prospect	<b>Nurul Shuhada Binti Mohd Faizal</b> (Universiti Sultan Zainal Abidin)  Code : A21
16.30 p.m. - 16.40 p.m.	Comparison of Physical Activity Levels Before and After MCO of Covid-19 Pandemic Among Mid-Adults in Johor Bahru	<b>Ho Ze Zong</b> (Universiti Tun Hussein Onn Malaysia)  Code : F3
16.45 p.m. - 16.55 p.m.	The Surface Crack Concrete Sleeper Detection system using Arduino	<b>Aiman Muhammad Aqil</b> (Universiti Tun Hussein Onn Malaysia)  Code : G14

# Tentative of Parallel Session

Parallel Session 3 (Hall A)

Tuesday, 10th September 2024

9.00 A.M. - 11.00 A.M.

**Parallel Session 3 Hall A**

Time	Title	Presenter
9.00 a.m. - 9.10 a.m.	A National Leadership Model Based on the Integration of Naqli and Aqli Knowledge: Perspectives and Practices	<b>Mohamad Zulfithri Mohd Johari</b> (Universiti Sains Islam Malaysia)  Code : A24
9.15 a.m. - 9.25 a.m.	A Note on the Youth Participation in the Volunteering Landscape in Malaysia	<b>Fairus Noor Balqis Binti Mohamed Fauzi</b> (Universiti Malaya)  Code : B5
9.30 a.m. - 9.40 a.m.	Enhancing Student Engagement Through Strategic Privatization : Analyzing the Impact of The HEPA UKM Strategic Plan 2023-2026 at Universiti Kebangsaan Malaysia	<b>Ahmad Hilal Bin Nor Hesham</b> (Universiti Kebangsaan Malaysia)  Code : C6
9.45 a.m. - 9.55 a.m.	Empowering Students for Future Success: A Comprehensive Approach to Soft Skills Development and Enhanced Graduate Employability	<b>Muhd Meffzal Bin Mohd Sazwan</b> (Universiti Kebangsaan Malaysia)  Code : A16
10.00 a.m. - 10.10 a.m.	Empowering Youth-Led NGO : A Case Study On Earthquake Disaster Relief Mission In Turkiye	<b>Ahmad Farhan Bin Suzaki</b> (Istanbul University)  Code : D6
10.15 a.m. - 10.25 a.m.	Pengenalan Subjek Pendidikan Seks Dalam Sistem Pendidikan Malaysia	<b>Roslan Abdullah</b> (Universiti Malaysia Sabah)  Code : F5
10.30 a.m. - 10.40 a.m.	Beyond the Booth: How Career Fairs Shape Communication Skills and Leadership Potential among UTeM Graduates	<b>Arvin Johan</b> (Universiti Teknikal Malaysia Melaka)  Code : A30
10.45 a.m. - 10.55 a.m.	Smart Mushroom House System (SMUSH) For Economical Cultivation Of Wood Ear Mushroom, Oyster Mushroom And Milky Mushroom.	<b>Aisyah Maisarah Abd Razak</b> (Universiti Malaya)  Code : G15
11.00 a.m. - 11.10 a.m.	UNIMAS Low Carbon Campus: Sustainable Development for Community of Tomorrow	<b>Mohammad Haiqal Fikri bin Bitta'ie</b> (Universiti Malaysia Sarawak)  Code : D7

# Tentative of Parallel Session

## Parallel Session 3 Hall B

Parallel Session 3 (Hall B)

Tuesday, 10th September 2024

9.00 A.M. - 11.00 A.M.

Time	Title	Presenter
9.00 a.m. - 9.10 a.m.	Navigating the Future: The Impact of Artificial Intelligence on Adaptive and Ethical Leadership	<b>Yasmin Suffiyah Muhammad Ilias</b> (Universiti Sains Islam Malaysia)  Code : A25
9.15 a.m. - 9.25 a.m.	Empowering Communities Through Volunteerism: Leadership, Compassion, and Change	<b>Sri Murugan Saga Devan</b> (Universiti Malaysia Terengganu)  Code : B6
9.30 a.m. - 9.40 a.m.	Youth Empowerment: Exploring The Joy of Living Sustainably With Young Conservationist Club (YCC)	<b>Muhammad Afif Darwish Mohd Sawal</b> (Universiti Malaysia Terengganu)  Code : A27
9.45 a.m. - 9.55 a.m.	Assessing The Integration Of Single -Use Plastic & Polyethylene Terephthalate (PET) Into Concrete And Bricks	<b>Herbert Riddley Anak Johnson</b> (Universiti Teknologi Mara)  Code : D4
10.00 a.m. - 10.10 a.m.	Cultural Harmony: Empowering National Heritage Arts (Talent, Art and Culture)	<b>Muhammad Aqasha Mukris Bin Zainuri</b> (Universiti Malaysia Terengganu)  Code : E3
10.15 a.m. - 10.25 a.m.	Mental Health University Ambassador Programme	<b>Dina Sofea Binti Hilmy</b> (Universiti Teknologi Malaysia Melaka)  Code : F7
10.30 a.m. - 10.40 a.m.	From Cultural Roots to Leadership Heights: The Sarawak Cultural Club's Blueprint for Developing Future Leaders	<b>Alister Thierry Anak Peter Unggang</b> (Universiti Malaysia Terengganu)  Code : A29
10.45 a.m. - 10.55 a.m.	FutureTech Fusion: ICT Workshops and Summit to Nurture Tomorrow's Tech Leader	<b>Silvy Indra Vista Binti Mujiono</b> (Universiti Teknikal Malaysia Melaka)  Code : G17
11.00 a.m. - 11.10 a.m.	Enhancing Malaysia's Resilience: Integrating Sustainability in Disaster Risk Reduction Management and Environmental Stewardship	<b>Ainul Syazwina</b> (Universiti Islam Antarabangsa Malaysia)  Code : D8
11.15 a.m. - 11.25 a.m.	The Relationship Between Total Quality Management And Employee Performance In Malaysia Manufacturing Industry	<b>Muhammad Hafiz Fikri Bin Ghazali</b> (Universiti Teknologi Malaysia)  Code : G18

# Tentative of Parallel Session

Parallel Session 3 (Hall C)

Tuesday, 10th September 2024

9.00 A.M. - 11.00 A.M.

**Parallel Session 3 Hall C**

Time	Title	Presenter
9.00 a.m. - 9.10 a.m.	The Influence of Esports in Youth Leadership and Character Development in Malaysia	<b>Esther Ezhil Nanggai</b> (Universiti Malaya)  Code : A26
9.15 a.m. - 9.25 a.m.	Slime Turns To Smile : Providing Quality Education To Syrian Children	<b>Muhammad Syukri bin Mohamad Misenan</b> (Istanbul University)  Code : B7
9.30 a.m. - 9.40 a.m.	Empower future leaders: The story of the Universiti Malaysia Terengganu (UMT) BAKAT Camp.	<b>Aina Batrisyia Zainal Abidin</b> (Universiti Malaysia Terengganu)  Code : A28
9.45 a.m. - 9.55 a.m.	Microplastic: Unveiling the Stealthy Polluters in Our Water	<b>Muhd Afiq Husaini bin Ismail</b> (Universiti Malaysia Kelantan)  Code : D5
10.00 a.m. - 10.10 a.m.	Aram Rumamai: Art Sustainability Among Students	<b>Muhammad Haikal Bin Johari</b> (Universiti Malaysia Terengganu)  Code : E4
10.15 a.m. - 10.25 a.m.	Holistic Health and Wellness: Integrating Islamic Practices and Modern Medicine	<b>Nor Nadhira Binti Nor Hisham</b> (Universiti Islam Antarabangsa Malaysia)  Code : F6
10.30 a.m. - 10.40 a.m.	University Social Responsibility (USR) Initiatives on Leadership Skills and Character Development	<b>Muhammad Danial Haiqal Bin Hamon Rafiz</b> (Universiti Teknikal Malaysia Melaka)  Code : A31
10.45 a.m. - 10.55 a.m.	Enhancing Student Interest in Mathematics through Game-Based Learning: Identifying Challenges and Evaluating the Effectiveness of Educational Innovation	<b>Megat Muhammad Daniel</b> (Universiti Malaysia Terengganu)  Code : G16
11.00 a.m. - 11.10 a.m.	Leadership From An Islamic Perspective	<b>Mohamad El Hassan</b> (Istanbul University)  Code : A34

# Tentative of Parallel Session

## Parallel Session 3 Hall D

Parallel Session 3 (Hall D)

Tuesday, 10th September 2024

9.00 A.M. - 11.00 A.M.

Time	Title	Presenter
9.00 a.m. - 9.10 a.m.	Empowering Tomorrow's Leaders: Administrative Strategies for Cultivating Talent Among Universiti Sains Malaysia Students	<b>Aida Shuhaida Mustafa</b> (Universiti Sains Malaysia) Code : A1
9.15 a.m. - 9.25 a.m.	Design Approaches of Metallic Functionally Graded Porous Scaffold (FGPS) to Serve Mechanical Properties" for your consideration	<b>Nur Aqila Kadir Hussein</b> (Universiti Teknologi Malaysia) Code : G1
9.30 a.m. - 9.40 a.m.	Synthesizing Industry Demands for Fourth Industrial Revolution Skills in Technical and Vocational Education and Training (TVET) Curriculum to Prepare Future-Ready Graduates	<b>Evarina Amiron</b> (Universiti Teknologi Malaysia) Code : A2
9.45 a.m. - 9.55 a.m.	Postgraduate Training Needs at UTM: A Systematic Review of Student Challenges	<b>Muhammad Ramziuddin Zakaria</b> (Universiti Teknologi Malaysia) Code : A4
10.00 a.m. - 10.10 a.m.	Strategic SWOT Analysis for Advancing Postgraduate Student Society in Universiti Teknologi Malaysia	<b>Mohamad Aizad Mohd Mokhtar</b> (Universiti Teknologi Malaysia) Code : A6
10.15 a.m. - 10.25 a.m.	Artificial Intelligence-Based Wayfinding Systems In Recreational Parks: An Analysis Of Enhancing Elderly Navigation And User Experience	<b>Teo Kok Wei</b> (Universiti Teknologi Malaysia) Code : G2
10.30 a.m. - 10.40 a.m.	A Modest Approach in the Implementation of Worship Practices during the COVID-19 Pandemic based on Fiqh al-Darār Yuzāl and Maqāṣid Syar'iyyah Against the Health Prevention Measures of the Ministry of Health Malaysia	<b>Wan Mohd Akmal Bin Wan Halim</b> (Universiti Sains Malaysia) Code : D1
10.45 a.m. - 10.55 a.m.	Enhancing Student Leadership Development: Strategies, Challenges, and Best Practices with Insights from Universiti Sains Malaysia	<b>Shahrizal Nazri</b> (Universiti Sains Malaysia) Code : A22

# *List Of* **ABSTRACT**

*Global Student  
Leadership Summit 2024*



# Evaluating The Impact of The Leadership Training Program 'Pemacu Warisan Siswa (PEWARIS)' On The Character Development of UTHM Students

AMIR IRFAN BIN GHAFFAR

Universiti Tun Hussein Onn Malaysia

## Abstract

Leadership is a vital component in the holistic development of students, particularly in higher education institutions where future leaders are nurtured. The Leadership Training Program 'Pemacu Warisan Siswa (PEWARIS)' at Universiti Tun Hussein Onn Malaysia (UTHM) aims to cultivate leadership qualities among its students, fostering well-rounded individuals equipped to face future challenges. This study evaluates the impact of the PEWARIS program on the character development of UTHM students, focusing on key areas such as self-confidence, communication skills, and social awareness. The program was meticulously designed and executed in four phases, each targeting different facets of leadership and character development: self-discovery and awareness, communication and interpersonal skills, team building and collaboration, and community engagement and social responsibility. A total of 100 students participated in the program, and data were collected through a combination of qualitative and quantitative methods. Pre- and post-program surveys assessed changes in the participants' self-perception and abilities, while focus group discussions and in-depth interviews provided deeper insights into their experiences and the program's effectiveness. The findings indicate significant positive changes in the participants' self-confidence, communication skills, and social awareness. Specifically, 85% of the participants reported improved self-confidence, 90% noted enhanced communication skills, and 92% demonstrated increased social awareness and commitment to community service. These results underscore the importance of structured leadership training programs like PEWARIS in higher education, highlighting their role in developing capable and responsible future leaders. The study concludes with recommendations for expanding the program, continuously improving its content, and providing ongoing support to participants to ensure sustained leadership development. This research contributes valuable insights into the impact of leadership training on student character development and the broader implications for educational institutions aiming to cultivate leadership among their students.

**Keywords:** Leadership, Students Development, Self-confidence.

Code : A3

## Empowering Universiti Utara Malaysia (UUM) Volunteers to Foster Safe Touch Awareness in Primary School Children

FATIHAH AZALI, SHARIMA RUWAIDA ABBAS

Universiti Utara Malaysia

### Abstract

Educating children about safe touch at an early age is critical for their safety and well-being. Children are empowered to protect themselves and know their boundaries if they learn about appropriate touch, especially how to identify and report inappropriate touch when they experience it. With the increased number of child abuse cases reported in Malaysia among primary school students recently, the Safe Touch program has been developed. Through this program, the university students are empowered and trained as volunteers to facilitate sharing education on safe touch with primary school students in Kubang Pasu District in Kedah, Malaysia. Universiti Utara Malaysia (UUM) students are given the necessary skills and knowledge to teach children about safe and unsafe touch effectively. This paper aims to explore UUM volunteers' experiences as safe touch facilitators and ways to help these primary school children. The initiative employs a mixed-methods approach. It combines quantitative surveys to assess volunteers' knowledge and confidence as safe-touch volunteers and qualitative interviews to capture their experiences and perceptions of children's responses. findings. The results indicate an improvement in volunteers' understanding of safe touch concepts and their ability to communicate with the children. The findings also highlight the crucial role that well-trained volunteers can play in child protection efforts. The conclusion underscores the effectiveness of community-based interventions in fostering safe environments for children through university student volunteers. This initiative not only enhances community engagement but also ensures that children are better equipped to understand and assert their rights to safety and respect.

**Keywords:** Volunteer, UUM, Safe Touch, Community, Empower

## Financial Technology (FinTech) and Entrepreneurship at UUM: From UUM Perspective

UMI ATHIRAH MOHD FAUZI, ROHANI ABDULLAH, SHARIMA RUWAIDA ABBAS

Universiti Utara Malaysia

### Abstract

"The future of finance is not about financial institutions themselves, but about the people they serve and empower" [1]. This study explores the transformative impact of Financial Technology (FinTech) innovations on entrepreneurial activities within the Universiti Utara Malaysia (UUM) community. Despite the rapid growth of FinTech globally its implications for local entrepreneurial ecosystems and financial accessibility remain underexplored. The problem statement addresses the need to understand how FinTech can catalyse entrepreneurial ventures and enhance financial inclusion among UUM students and faculty members. Using quantitative survey methodology, this research incorporates case studies of successful FinTech applications, surveys of UUM entrepreneurs leveraging FinTech solutions, and comprehensive market analysis. The case studies highlight innovations such as mobile payment systems, e-wallet apps, and digital banking services. Surveys provide insights into the benefits and challenges experienced by UUM entrepreneurs, while market analysis examines the broader FinTech trends influencing local entrepreneurial activities. Preliminary results indicate that FinTech innovations significantly enhance access to financial resources, streamline business operations, and reduce entry barriers for new entrepreneurs. These findings imply that adopting FinTech solutions can foster a more inclusive and dynamic entrepreneurial ecosystem at UUM. The study's insights inform policy recommendations and strategic initiatives aimed at integrating FinTech into UUM's entrepreneurial support frameworks, thereby empowering students and faculty to harness these technologies for business success. The findings contribute to the UUM community by offering practical guidance on leveraging FinTech for entrepreneurship, promoting financial inclusion, and inspiring a culture of innovation. By understanding the benefits and potential of FinTech, UUM can cultivate an environment where entrepreneurial activities thrive, contributing to economic growth and social progress.

**Keywords:** Financial Technology (FinTech), Entrepreneurship, Financial, UUM Community, Innovation

## The Effects of a Sport-Based Service-Learning Project on College Athletes' Civic Attitudes and Skills development

NUR AQILAH BATRISYIA HARISMAN, NURWINA ANUAR, AHMAD FIRDHAUS ARHAM, MOHD SUZEREN JAMIL, NORINSAN KAMIL OTHMAN

Universiti Kebangsaan Malaysia

### Abstract

Service-learning courses have been widely recognised for their multitude of advantages, such as promoting cultural understanding and instilling a passion for community involvement. Nevertheless, there is still a limited amount of quantitative data available on learning and skills developed. The recent data were from eleven years ago and did not focus on sports-based programmes. Building on this knowledge, the current study utilized the Service-learning project that is part of the Sports and Community Module for Bachelor of Sports and Recreational, offered by the Faculty of Education at the Universiti Kebangsaan Malaysia. All students who enrolled in this course were required to complete a service-learning project for marginalized communities of their choice throughout the semester. By the end of the semester, students are required to fill out a comprehensive questionnaire. This questionnaire includes sections on demographics, the Service-Learning Course Indicator (SLCQ; Furco & Moel, 2006), the Community-Service Approaches Scales (CLAS; Moely & Miron, 2005), and the Civic Attitudes and Skills Questionnaire (CASQ; Moley et al. 2002). The questionnaire was distributed to all students ( $n = 75$ ) who had completed at least one semester of the Sports and Community Course at the end of the course. Participants report their gains through participation in their structured service-learning project. The article explores the impact of service-learning courses emphasizing the positive effects on civic engagement and skill developed opportunities for college athletes.

**Keywords:** Service-learning, Experiential Learning, College athletes, Community Service, Sports-Based Programme.

## Alternative Transportation: Additional transportation provision programs affect the health and sustainability of the environment

JASRIMAN HASSAN

Universiti Putra Malaysia

### Abstract

Sustainability is one of the biggest concerns in the world today and is considered a method of maintaining environmental health and ensuring that future generations are well taken care of. The significance of increased environmental sustainability and decreased carbon emissions from traditional means of transportation ranks high up on the list of issues facing the world today. E-bikes have been emerging with the highest potential to be a serious alternative given the current trend in demand for more sustainable and efficient means of transportation and mobility, taking into account the environmental concern. This research paper explores university students' perceptions and acceptances toward e-bicycles serving as a means of campus transportation. The integration of both quantitative surveying and qualitative interviewing methods in mixed methods to have a wide range of data on the perception, benefits, and likely barriers of students towards the adoption of e-bikes. Findings indicate that students have a favorable perception towards e-bikes, where the key drivers were perceived environmental benefits and cost savings. The top barriers are challenges regarding initial purchase cost, safety, and inadequate infrastructure for wide adoption. University policymakers should invest in infrastructure, offer financial incentives, and promote awareness through campaigns to boost the adoption of e-bikes. This research therefore becomes a source of support for literature about sustainable transportation at the higher education level and yields very concrete insights in supporting the adoption of university campuses.

**Keywords:** Sustainability, mobility, cost, safety concerns, infrastructure.

## The Impact of Language Barrier On Students Individual Skills

NURSYAFIQAH FARHANA BINTI MOHAMMAD AZHA, SAMSURIATI BINTI SYAMSUDDIN

Universiti Sains Malaysia

### Abstract

Language barriers in education significantly affect millions of students worldwide, especially in increasingly diverse and globalized educational institutions. These barriers impact students' academic performance, social integration, self-esteem, and confidence. Scholars categorize language barriers into linguistic, sociolinguistic, psycholinguistic, pragmatic, and physical types, all of which can impede effective communication and learning. Academic success is closely linked to language proficiency, with students struggling to understand lectures, participate in discussions, and complete assignments facing major setbacks. These challenges also lead to feelings of isolation and reluctance to engage in essential extracurricular activities. Individual skills, spanning linguistic, logical-mathematical, musical, spatial, interpersonal, analytical, creative, and practical abilities, are crucial for personal and academic success. This research aims to explore the impact of language barriers on students' self-esteem and future educational and professional opportunities. Specifically, it seeks to answer the following research questions: "How does language barrier affect students' academic performance" and "Is there a significant difference in individual skills between students facing language barriers and those who do not" By identifying these effects, the study highlights the need for targeted interventions to enhance language proficiency, cognitive abilities, and overall learning outcomes, promoting students' personal growth and success.

**Keywords:** language barriers, academic performance, language proficiency.

## Artificial Intelligence, Helper or Destroyer of Humanity?

YONG CHOON KIT

Universiti Kebangsaan Malaysia

### Abstract

The rapid progression in artificial intelligence commands a critical debate about whether it will serve as a helper or destroyer in education for students. The present paper appraises the role of AI on student productivity, creativity, and student dependency. A systematic review and meta-analysis of current literature will be used to draw data in this research that assesses both the positive and negative impacts of AI on student performance. It has been proven that AI motivates learning experiences and mainly frees administrative duties, specifically in the STEM area. Still, it seemed to have a few problematic issues: creativity dampening, promotion of reliance, personal disconnection, and privacy concerns caused by AI. The subjects involved in the test are university students, and their perceptions and behaviors were studied through this mixed-method study in both a qualitative and quantitative approach. A questionnaire was distributed to 70 UKM students to measure attitudes regarding AI before and after engaging with AI tools within their coursework. The data were analyzed for mean tests and standard deviation, among others, for these purposes. Results will suggest that AI may bring efficiency to learning and engagement in a task, yet it also brings significant risks to student independence and creative thinking. In this study, it is established that a balanced approach is required to ensure that the benefits resulting from AI in educational settings are maximized while the corresponding negatives are mitigated.

**Keywords:** artificial intelligence, productivity, creativity, dependency, higher education

## Empowering Marginalized Students through Leadership Roles.

MUHAMMAD HAFIZZUDIN BIN ZOLKIFELY, NUR NAZIRAH BINTI HISHAM

Universiti Utara Malaysia

### Abstract

Empowering marginalized students through leadership roles is crucial for fostering inclusivity and promoting diverse perspectives within educational institutions. Effective capacity building encompasses efforts in empowerment and holistic education and mentoring. This study discusses the socio-economic challenges faced by these communities, including limited access to education, healthcare, and economic resources. It also explores strategies and initiatives aimed at creating opportunities for marginalized student communities. The study examines the importance of technology and financial resources in providing access to new opportunities in education, healthcare, and employment. The ultimate goal of this study is to provide a comprehensive framework for stakeholders to implement targeted interventions that encourage equitable growth and social inclusion for these communities. Using a mixed-methods approach, the study combines qualitative literature review and interviews with quantitative surveys. Data were collected from 143 student leaders across 132 organizations. The analysis highlights effective approaches to implementing more progressive empowerment efforts, including inclusive policy-making, community-driven development projects, and collaboration between government and non-governmental organizations. Technology and financial resources can be powerful tools in bridging the marginalization gap and expanding access to previously inaccessible resources for marginalized communities. Additionally, collaboration among various stakeholders, including government, private sector, NGOs, family institutions and the student communities themselves, is essential for inclusive and sustainable development efforts. Coordinated and integrated efforts among multiple parties are crucial to addressing the complex challenges faced by marginalized student communities. The integration of inclusive policy approaches, technology use, education and training, and community-based development can ensure long-term independence and community service for marginalized communities.

**Keywords:** Empowerment, marginalized students, leadership roles, diversity, efficiency model.

## The Role of Volunteers in Raising Cancer Awareness Among Students: A Case Study of The Tunku Laksamana Johor Cancer Foundation

PUTERI KHAIRUNNISAQ, AMIR IRFAN GHAFFAR, MEOR LUQMAN NUR HAQEEM MOHD ASRI, NOOR IZWAN NASIR, MOHAMAD FAEEZ MOHD DENAN, AHMAD FAREEZ ZULHAQEEM AHMAD ZAHADI, SYAFAWATI SAMION, SITI NURNAZIRAH ZULKARNAIN, MUHAMMAD DANISH AIZAT MOHD NOR, KHALID BIN ISA, MD NORRIZAM MOHMAD JA'AT @ MOHD NOH, AHMAD SHAH A RAHIM, NORATIKA EFENDI, HO ZE ZONG & AIMAN AQIL

Universiti Tun Hussein Onn Malaysia

### Abstract

Cancer is one of the most feared diseases in the world, significantly impacting patients and their families. Therefore, it is crucial to raise awareness about cancer within society, particularly among students who represent the youth that will lead the nation's future. The Tunku Laksamana Johor Cancer Foundation (TLJCF) is a non-profit organization committed to providing support and services to cancer patients and their families. One of TLJCF's primary initiatives is a volunteer program aimed at increasing cancer awareness among students. This study aims to examine the role of TLJCF volunteers in enhancing cancer awareness among students. A qualitative methodology was employed in this study, focusing on in-depth interviews with TLJCF volunteers and students involved in cancer awareness programs. Additionally, observations were conducted during cancer awareness activities organized by TLJCF at university campuses. The findings indicate that TLJCF volunteers play a vital role in raising cancer awareness among students through various activities such as talks, workshops, campaigns, and competitions. Volunteers act as facilitators and role models for students in disseminating information and providing support to cancer patients. Furthermore, student involvement as volunteers also enhances their empathy and awareness of cancer-related issues. This study has implications for universities, non-profit organizations, and other stakeholders to collaborate in enhancing cancer awareness among students through effective volunteer programs. High awareness of cancer can aid in prevention, treatment, and support for cancer patients while reducing the stigma often associated with the disease.

**Keywords:** Volunteers, cancer awareness, students, Tunku Laksamana Johor Cancer Foundation.

## Leadership Development Is Character Development

MUHAMMAD FARHAN BIN KAMAL BASHAH

Universiti Kebangsaan Malaysia

### Abstract

This research focused on student leaders who have been elected by their peers to hold various positions in society and clubs in the university setting. It explored the leadership qualities that student leaders had and the influence of their character on those leadership qualities among student leaders. A total of 59 participants from a local university in Malaysia, University of Putra Malaysia (UPM) and the National University of Malaysia (UKM) were involved, with 33 males and 26 females. Leadership Personality Inventory (LPI) online was used to assess the character dimensions. Participants were asked to do a self-rating on 10 different leadership qualities. Findings showed that student leaders chosen by their peers had very high integrity. Multiple regression results showed that Neutral Character dimension was the most significant predictor for the leadership quality of showing concern for others. Open Character dimension was a crucial predictor for self-confidence. Similarly, Relational Character dimension was an important predictor for both charisma and integrity. To a certain extent, the character of leaders influences the leadership qualities that they display readily and some leadership qualities such as charisma need to be further enhanced through leadership training.

**Keywords:** Personality, Leadership Qualities, Leadership Training, Student Leaders.

## Microwave Torrefaction of Empty Fruit Bunch (EFB) As Biomass Energy Source

MUHAMMAD AFIF SHAUQIE SAIRON, MAZNI ISMAIL

Universiti Malaysia Pahang Al-Sultan Abdullah

### Abstract

The palm oil industry is a significant contributor to Malaysia's agricultural sector, generating considerable biomass waste, including Empty Fruit Bunches (EFB). In 2020, Malaysia was projected to produce approximately 20 million tons of EFB, which is commonly utilized as a fuel for power generation, animal nutrition, and organic fertilizer. However, traditional disposal methods, such as incineration and decomposition, contribute to environmental contamination and greenhouse gas emissions. Microwave torrefaction has emerged as an advanced method for processing EFB, offering faster heating rates, higher temperatures, and more uniform heating compared to conventional torrefaction methods. This study investigates the improvement in biochar properties produced by microwave torrefaction of EFB. The process involved applying microwave power levels of 450 W, 600 W, 850 W, and 1000 W to EFB samples, with torrefaction durations of 5, 10, 15, and 20 minutes under a constant nitrogen gas flow rate of 50 ml/min. Characterization of raw EFB biomass was performed, including proximate analysis (moisture content, volatile matter, fixed carbon, and ash content), calorific value, mass yield, and energy yield. The findings indicate that torrefaction at 850 W for an optimal period achieves an ideal balance between enhancing fuel characteristics and preserving energy efficiency. This approach maximizes the benefits of microwave torrefaction, resulting in the production of superior biofuel from EFB with increased energy density and stability, presenting a viable solution for the sustainable management of biomass waste in Malaysia.

**Keywords:** Empty Fruit Bunches, Microwave Torrefaction, Biomass.

## **Understanding NDUM Students Knowledge and Attitude to Sport Injury Management**

MOHAMAD SHAMIR MOHAMAD AMRAN, NOOR HAMZANI FARIZAN,  
SHAMSULARIFFIN SAMSUDIN & ATIQAH FAKHIRA SHAIFUL AZLI

Universiti Pertahanan Nasional Malaysia

### **Abstract**

This study looks into NDUM (National Defence University of Malaysia) students' attitudes and knowledge regarding sports injury management. The study is a quantitative survey that evaluates 351 students. The findings provide a comprehensive picture of the knowledge and attitudes of the participants regarding the management of sports injuries. The results indicate a low level of attitude towards sports injury care (mean = 73.288, SD ± 9.675) and a low level of knowledge (mean = 9.088, SD ± 3.116), with 52.4% above and 47.6% below the mean scores, respectively. Regarding gender, participation in sports, and injury status, along with knowledge of sport injury management, among NDUM students, the findings indicated noteworthy variations between the variables. Knowledge and attitude were found to have a positive correlation ( $r = 0.244$ ,  $p = 0.001$ ), suggesting that knowledge and attitude are related. The study identifies its shortcomings, such as self-reporting bias, and makes recommendations for further research to address these. By decreasing the need for medical attention for avoidable injuries, a greater understanding of sports injury management can lessen the burden on the healthcare system and lead to cost savings and more effective healthcare delivery. The results offer insights for instructional strategies and interventions, with implications for promoting sports safety and injury prevention within the university community.

**Keywords:** Knowledge, Attitude, Injury Management

## Precision Symbol Recognition in Electrical Schematics: A Deep Learning Approach Using YOLOv8

MUHAMMAD AMIR NURUDDIN BIN ABDUL JALIL, NOR AZLEEN BINTI ARAFIN, NOOR ZAIHAH JAMAL & AHMAD AFIF MOHD FAUDZI

Universiti Malaysia Pahang Al-Sultan Abdullah

### Abstract

Electrical schematic diagrams are essential for many engineering applications. However, thoroughly analyzing schematics relies upon accurately detecting and classifying numerous component symbols. Common image recognition tools struggle at this symbol detection task. Challenges arise from the variety of scale, close connection, value of the symbol that appear and rare minority symbols. This paper puts forward improvements to enhance symbol detection accuracy by developing a two-phased cascaded detector. The first phase leverages a regional proposal network to locate symbol areas while correcting rotations. The second phase classifies cropped patches via a ResNet model. Data augmentation and class rebalancing further boost model robustness. Comprehensive benchmarking displays significant gains of over 15% in recall and precision metrics from this cascaded approach over baseline detectors. The improvement is also to reduce errors in the calculation of the object in that object type. By enhancing location and classification of symbol types and attributes, more automated schematic digitization is attainable. This facilitates extracting representations for simulation, documentation and querying applications next. Core innovations include the high-performing cascaded architecture, specialized augmentations and focus on extracting symbolic information. Additional boundary-focused sampling could further improve the regression of symbol values

**Keywords:** Symbol Detection, Electrical Schematics, Cascaded Detector, Deep Learning.

## Student Empowerment Agenda Reimagined: Trailblazing Character Based Leadership Models.

NUR NAZIRAH BINTI HISHAM, MUHAMMAD HAFIZZUDIN BIN ZOLKIFELY

Universiti Utara Malaysia

### Abstract

Integrity is fundamental to the student empowerment landscape, providing authenticity in leading by example. Leadership thrives on balancing respect, fostering partnership and fairness, and responsibility, encouraging self-initiative for the organization's benefit. Character-based leadership training emphasizes the development of personal values, ethical behavior, and integrity, crucial for effective organizational leadership. This study critically analyzes existing character leadership models, focusing on challenges in objectively measuring character traits and integrating them with traditional competency-based models. The main objective of this study is to investigate the impact of character-based leadership on student-led organizations and aim to provide actionable insights for enhancing leadership practices. This study adopts a mixed-method approach, combining qualitative with quantitative surveys. Data were collected from 68 student leaders across student representative councils across Malaysia and clubs in Universiti Utara Malaysia, analyzing both qualitative and quantitative findings through observations, literature reviews and interviews. Challenges identified include subjectivity in character trait evaluation and difficulties in translating these traits into actionable behaviors. Despite these challenges, the relevance of character-based leadership in students' empowerment agenda remains significant, due to its role in enhancing organizational performance, task satisfaction, and overall self-led productivity, particularly when leaders exhibit high levels of integrity and empathy. Key recommendations include establishing clear standards for character traits, implementing robust ethics codes, and incorporating practical training programs with ethical decision-making simulations. Integrating character traits with competency models and utilizing 360-degree feedback, reflection, dialogue, and mentorship are crucial for improving leadership selection, evaluation, and promotion processes. By addressing these challenges and implementing the proposed solution strategies, student organizations can foster a leadership culture that values both competence and ethical behavior, and ultimately enhancing students' empowerment movement's effectiveness and sustainability.

**Keywords:** Character-based leadership, ethical behavior, leadership training, student organizations, competency models.

## Technology For The Future: Empowering Digital Entrepreneurship In The Economy 4.0

SITI NUR AMALIN AISYAH MOHD KHIR, NURUL FAZLINA ZAHAR &  
NIK SYUHAILAH NIK HUSSIN

Universiti Malaysia Kelantan

### Abstract

In the era of Economy 4.0, digital technology stands as the main catalyst for transformation in the global business landscape. Digital entrepreneurship has emerged as an important element in expanding market reach, improving operational efficiency and driving innovation. This paper explores the important role of technology in empowering digital entrepreneurship within the framework of Economy 4.0. The paper aims to investigate the impact of technologies such as artificial intelligence (AI), the Internet of Things (IoT), and big data analytics on the dynamics of entrepreneurship. By integrating these technologies, this paper discusses opportunities to create new business models and improve operational processes. This paper also takes the opinions and perspectives of students at Universiti Malaysia Kelantan (UMK). UMK is an entrepreneurial University in Malaysia. To achieve this objective, a comprehensive literature review was conducted to discuss the role of technology in creating new business opportunities, facilitating access to global markets, and increasing the competitiveness and sustainability of digital entrepreneurs. UMK students, as the future generation, need to master the latest technology to become leaders in an increasingly competitive entrepreneurial ecosystem. In addition, the paper outlines a strategy to strengthen digital entrepreneurship among young entrepreneurs, especially among students of Universiti Malaysia Kelantan. This strategy includes training programs, financial support, and the development of collaborative platforms to foster innovation and sustainable business growth. Finally, the paper advocates the development of essential digital infrastructure, including technology upgrades and policies that support the growth of digital entrepreneurship ecosystems. It provides practical guidance for stakeholders to take advantage of the opportunities presented by Economy 4.0.

**Keywords:** Digital Entrepreneurship, Economy 4.0, Technology Integration, Sustainable Business Growth, Entrepreneurial Dynamics.

## Empowering Youth Among Students to Leader Through The Volunteerism Project: A Project of Smart Anchor

MUHAMMAD SHAFIQ SHAFIEE, ASMA MAT

Universiti Utara Malaysia

### Abstract

Volunteering and youth involvement have become essential in tackling today's societal issues. This article seeks to examine the value of young student leaders in volunteerism activities, the effectiveness of their leadership and personal growth, and the empowerment of their interests to foster more volunteerism projects so that they can deliver more benefits to communities. This article explores the several ways student leaders can be exposed to volunteerism activities to empower their leadership skills, portraying various ways that student leaders can make a positive impact on societies from their leadership interests. The advantages of student leaders are also discussed in the article, including improving their leadership skills, communications, civic consciousness, and the development of their interest in volunteerism activities. By demonstrating an analysis of the SMART ANCHORS project, this paper will highlight the capacity of young student leaders to promote volunteerism, especially education reform among school students and leadership development, which the students of SMK Selama, Kedah. The results of the studies show that there is a significant relationship between volunteerism and leadership development among student leaders, in which, through volunteerism, they will serve the participants and develop purposes for joining social activities. Hence, this article enlightens on the aspects of leadership development among student leaders through their involvement in volunteerism projects as a dynamic force for participants and social progress.

**Keywords:** Volunteerism, student leaders, SMART ANCHOR.

## The Role of the Student Affairs Department and Bank Rakyat Inasis in the Formation of Holistic and Flexible Student Leadership

FAEIQ SHAUQY KAREEM SEMMARD, MOHD FITRI YUSOFF, WAN MOHD  
AMJAD WAN HALIM

Universiti Utara Malaysia

### Abstract

National and global leaders in the future lie in the formation of young leaders today. Young leaders need to be honed and trained with leadership courses to make them competitive, high-level thinking and far-sighted in every matter in the organization. This matter is to ensure the security and effectiveness of national leaders to preserve the ecosystem of human life as well as pattern a more effective and efficient national government system in the future. Holistic concepts demand broad and deep thinking in making decisions, while flexibility requires the ability to adapt to current conditions. In this context, administrators and principals play an important role in forming holistic and flexible leaders. Therefore, this study aims to examine the role of the Department of Student Affairs (JHEP) and Inasis Bank Rakyat Universiti Utara Malaysia (IBR UUM) in the formation of holistic and flexible student leadership. This study uses a quantitative method approach by conducting a comprehensive survey of student leadership and the role of administrators. The results of the study show that there is a positive development and impact in terms of the personality and leadership of students who participate in various inputs and programs conducted by IBR UUM and JHEP as the parties that support student leadership. In addition, through the approach implemented by JHEP and IBR UUM has also succeeded in training effective communication skills among students as well as programs that have been recognized at the national and international level. Overall, the results of this study provide an important contribution to the understanding of the process of forming student leaders. It also plays an important role in ensuring the birth of a generation of quality leaders in the future.

**Keywords:** Holistic and flexible leader, Department of Student Affairs, INASIS Bank Rakyat, Universiti Utara Malaysia (UUM)

# Student Economic Gig Action Plan: Addressing Policy Gaps and Harnessing Technological Advancements in Higher Education

MUHAMMAD IZUAN FAIZ BIN ABDUL RAHMAN

Universiti Utara Malaysia

## Abstract

This research paper explores the profound transformation in the economic landscape brought about by the technology era, focusing on the rapid growth of the gig economy in our nation in the context of University students. The gig economy is typically discussed in the context of providing job opportunities for young individuals facing contemporary economic challenges. Technological advancements and the widespread use of smartphones have revolutionized the commercial landscape, offering suppliers new market entry points (Sarah A. Donovan, David H. Bradley & Jon O. Shimabukuru, 2016). Beyond being a new channel for national economic expansion, the gig economy is a crucial alternative for young people to navigate economic uncertainties on both national and global scales. To address this, we propose developing a Student Economic Gig Action Plan. This ensures that each university-level economic gig initiative is governed by authoritative guidance, providing an official reference for addressing any issues. In response to the fast-evolving world, a comprehensive paradigm shift is required to maintain the relevance and trustworthiness of the country's higher education system. Overall, we are confident that the government's approach should align with contemporary advancements to ensure effectiveness and relevance.

**Keywords:** Gig Economy, Technological Advancements, Economic Uncertainty, Youth Employment, Higher Education, Policy, Regulation, Economic Gig Action Plan.

## Understanding the culture of Sugar Dating Among University Students in Malaysia

MOHAMMAD NOOR AIMAN BIN HASSAN NUDIN, PRECILLA MOJINOL,  
NUR QURRATUL AIN BINTI MOHD ASR, INTAN MUNIRAH BINTI SHAFIEE  
& FARAH JAZLINA BINTI MOHD HAIDEL

Universiti Utara Malaysia

### Abstract

Sugar dating poses significant risks due to potential exploitation and power imbalances in relationships with older, wealthier partners. This research investigates the increasing practice of sugar dating among university students in Malaysia. With rising living costs and tuition fees, many students struggle to make ends meet, making sugar dating a tempting option. By interviewing students and hearing their stories, the research seeks to gain a deeper understanding of their motivations and experiences. Using a qualitative approach, the study will conduct in-depth interviews to gather detailed personal accounts from students involved in sugar dating. This method captures the complex and nuanced reasons behind their choices that numbers alone cannot explain. Additionally, a comprehensive literature review will provide broader context and insights into sugar dating trends. By shedding light on these issues, the research aims to help authorities in reviewing and developing policies or services that can support affected students and effectively manage the prevalence of sugar dating practices.

**Keywords:** Sugar Dating, University Students in Malaysia, Financial, Qualitative approach.

## Conceptualizing Malaysia as a Global Leader in Halal Logistics: A New Business Paradigm

MEOR MUHAMMAD AFIF AIMAN BIN ABU BAKAR, NUR NAZATUL NUHA BINTI MOHAMAD NAZAR

Universiti Utara Malaysia

### Abstract

In recent years, Malaysia has emerged as a significant role in the global Halal market, particularly in the realm of logistics. This paper explores Malaysia's potential to position itself as a global leader in Halal logistics, offering a new business paradigm that leverages its strategic geographical location, robust Halal certification infrastructure, and established trade networks. The conceptual framework examines key factors contributing to Malaysia's competitive advantage in Halal logistics, including regulatory frameworks, technological innovations, and industry collaborations. Case studies and examples illustrate successful initiatives and partnerships that have propelled Malaysia's ascent in the Halal logistics sector. Moreover, the paper discusses challenges and opportunities for Malaysia to further enhance its leadership role, emphasizing sustainable practices, ethical considerations, and integration into global supply chains. The findings underscore Malaysia's pivotal role in shaping the future of Halal logistics, fostering economic growth, and promoting Halal integrity worldwide.

**Keywords:** Halal logistics, Malaysia, Global leader, Supply chain management, Halal certification

## Harnessing Empowerment Paradigms for Development of Student Leadership

AZRIQ RASHID HUSSIN, MAZLIFENDIRIZAN MD REJAB & AIDA SHUHAIDA MUSTAFA

Universiti Sains Malaysia

### Abstract

Leadership skills among students must be cultivated among themselves since they are a fundamental component of education that allows them to make good decisions, instill diligence and dedication, and distinguish between what is adequate and inappropriate. Furthermore, students are prone to develop valuable learning processes and abilities, building a deeper sense of maturity while in an academic setting. In the Engineering Campus of Universiti Sains Malaysia (USM), students' representatives such as Student Representative Council or Residential Student Council play a crucial role in ensuring the well-being of students in the campus and the residential hall, respectively. It is crucial for them to develop strong leadership skills to make better decisions while fulfilling their responsibilities. This study aims to explore the empowerment paradigms that could contribute to the development of leadership skills among the students. The empowerment approaches encompass Project-Based Learning, Service Learning, and Collaborative Group Work. The research involved 40 members of Residential Student Council of Jaya Lembaran Utama College or known as Majlis Penghuni Desasiswa Jaya Lembaran Utama (MPDJLU) to complete the online survey questionnaire. Besides, literature review of articles on related topics is also one of the methods used in this research. The study results indicate that Project-Based Learning, Service Learning, and Collaborative Group Work are the best empowerment paradigms that could be harnessed to foster leadership among the students. Integrating these empowerment paradigms enhances student leadership and equips USM students to navigate and lead in complex, dynamic real-world situations, thereby fostering the development of capable future leaders.

**Keywords:** Leadership; Empowerment; Project-Based Learning; Service Learning; Collaborative Group Work; Majlis Penghuni Desasiswa Jaya Lembaran Utama (MPDJLU)

## Post-AUKU Reforms: Implications for Leadership and Governance in Malaysian Universities

MUHAMMAD IMAN AZHAR, LONG MUHAMMAD HAZIQ LONG HASSAN,  
AHMAD FIRDHAUS ARHAM, MOHD SUZEREN JAMIL, NORINSAN KAMIL  
OTHMAN

Universiti Kebangsaan Malaysia

### Abstract

Following the amendment of the Universities and University Colleges Act (AUKU), significant changes in Malaysian university leadership and governance have emerged. This paper examines how these reforms have redefined the roles of university leaders and governance structures. By focusing on enhancing institutional autonomy and student empowerment, the amendments have enabled greater flexibility in decision-making and academic pursuits. The study investigates the evolving landscape of university governance post-revision, highlighting the challenges and opportunities faced by leaders in adapting to these changes. Through qualitative research and case studies of several Malaysian universities such as Universiti Kebangsaan Malaysia (UKM), Universiti Malaya (UM) and Universiti Pendidikan Sultan Idris (UPSI). The findings indicate that while the reforms have granted students more autonomy, they have also introduced complexities in balancing student independence with accountability. Effective leadership now requires balancing the promotion of student empowerment and freedom with transparent and accountable governance practices.

**Keywords:** AUKU reforms, Malaysian universities, leadership, governance, institutional autonomy, student freedom.

# Impact of My STEM Ambassador UPM Club on Students' STEM Engagement

MUHAMMAD NAZREEN BIN SAMURI

Universiti Putra Malaysia

## Abstract

My STEM Ambassador UPM Club, established in 2020 as a branch of BHEP under the approval of Malaysian Ministry of Higher Education (KPT) , focuses on enhancing the awareness of school students towards STEM education by considering innovation, creativity, and flexibility for the 4.0 industrial revolution. The findings focused on establishing the current level of innovation, creativity, and interest in STEM fields among students and the efficiency of the club in fostering the relationships between universities and the community. The club plays an important role to build better cooperation between the university and schools, increasing students' knowledge of STEM subjects. This study reveals how STEM education was implemented and popularized by the club to help students prepare for future technological advancement in Malaysia. The findings underscore the club's role in promoting STEM education and suggest that expanding similar initiatives could further strengthen the STEM pipeline in Malaysia.

**Keywords:** innovation, STEM education, student knowledge, promoting STEM.

## Buddies Global Symposium 2024 (BuGS24)

MUHAMMAD AMMAR MOHD SALLEH

Universiti Putra Malaysia

### Abstract

The Buddies Global Symposium 2024 (BuGS24), held from May 7-11, 2024, at Universiti Putra Malaysia (UPM), addressed critical internationalization challenges faced by public universities, including mental health concerns, adaptability issues, and cultural diversity. Organized by the Buddies Association UPM with various university divisionsthe symposium aimed to identify and analyze these issues while developing practical solutions. The event utilized interactive workshops, educational forums, cultural visits, and a Model United Nations simulation to engage over 100 participants with 10 different nationalities from 15 universities across Malaysia and Indonesia. Key outcomes included establishing Buddies as mental health aides, implementing mandatory diversity training for educators, and organizing cultural exchange programs. The symposium not only enhanced understanding and provided actionable strategies but also fostered a collaborative network of universities and individuals committed to supporting international students. This initiative significantly advanced the internationalization efforts of participating institutions and set a foundation for future collaborations and continued improvements in student support.

**Keywords:** Internationalisation, Mental Health, Public Universities, Student Support

## Jaulah Kasih Ummah : "Empowering Future Leaders Through Student Solidarity"

FARIZ HUSNI BIN CHE GHANI

International Islamic University Malaysia

### Abstract

The annual program known as Jaulah Kasih Ummah (JKU) , led by the UMission Club, aims to improve educational chances and promote student-to-student unity for poor kids in Islamic schools located in Satun Province, Thailand. This program brings together International Islamic University Malaysia (IIUM) students for meaningful volunteer work. These include offering assistance with education, giving out necessary school materials, and organizing cross-cultural interactions that foster understanding and lifelong learning. The main goal of the initiative is to empower students in Islamic schools in Thailand by establishing a support system that crosses geographical and cultural barriers. This goal promotes a sense of brotherhood and global citizenship among Muslim youngsters in addition to aiding in the participants' academic and personal growth. Central to the mission are key activities such as mass circumcision ceremonies, food distribution, and various community development programs. These initiatives are strategically aligned with the United Nations Sustainable Development Goals (SDGs), particularly No Poverty, Zero Hunger, and Good Health and Well-being. By means of this cooperative endeavor, JKU hopes to establish a robust and connected community of future leaders.

**Keywords:** Volunteerism, sustainable development goals, community empowerment, mass circumcision, food distribution, student engagement.

## Vertico Clothing

MUHAMMAD HAFIDZ BIN SHAHRIL IZWAN

Universiti Putra Malaysia

### Abstract

Vertico is a printing services company founded in 2022 by Muhammad Hafidz bin Shahril Izwan, a student from Universiti Putra Malaysia pursuing a Bachelor's degree in Agribusiness Science with Honors. Initially operating alone, the company achieved sales of over \$50,000 in its first year. By 2023, Vertico's sales surpassed \$162,000, with a team of seven staff members and comfortable business premises. The company targets university students across Malaysia, aiming to become the primary t-shirt supplier at ten universities by 2026 using a Direct Approach method. Vertico prioritizes customer satisfaction and service quality, providing training for sales staff based on established S.O.Ps. For 2024, the company targets sales of \$400,000 and plans to expand its team to nine members, confident in its systematic approach to achieving these goals.

**Keywords:** Sales of \$400,00, T-shirts Supplier, Staff.

## Development of Ground System Terminal by UTHM Students for Nano-Scale Satellite

FARA NATASA ZAKRI<sup>1</sup>, MOHD HEZRI MOKHTAR, MUHAMMAD HILMI  
FAUZI AZAM YAHAYA, MUHAMMMAD NIZAMUDDIN RAZALI,  
NORATIKA EFENDI

Universiti Tun Hussein Onn Malaysia

### Abstract

Nano-scale satellite is a satellite-like device that is easy to build and can be learned as it is suitable as a first step training towards real satellite development while a ground system terminal is needed as a communication system between nano-scale satellites. However, building the system is not cheap and the ground system terminal requires a huge space area to run the system. To solve the problem, software and hardware has been chosen by using a friendly-user such as Raspberry Pi Zero W, Ardupilot Mission Planner, and 3DR radio telemetry 433 Mhz. The ground system terminal consists of uplink to create the command, downlink software to analyse the data, receiver antenna, and modem performing modulation and demodulation. The system can collect the telemetry data every 5 second interval through Graphical User Interface while providing the real-time visual feed.

**Keywords:** Nano-scale Satellite, Ground System Terminal, Communication Subsystem

# Enhancing Student Engagement Through Strategic Privatization : Analyzing The Impact of HEPA UKM strategic Plan 2023-2026 at Universiti Kebangsaan Malaysia

ZAL HASMI ROSLAN, ANIS ATHIRAH BINTI MOHD. ZAILANI, AHMAD HILAL NOR HESHAM, NUR EMIEZA SALLEH, NORINSAN KAMIL OTHMAN, AHMAD FIRDHAUS ARHAM, NUR HASYAREEDA HASSAN, MOHD SUZEREN MD JAMIL

Universiti Kebangsaan Malaysia

## Abstract

The HEPA UKM Strategic Plan 2023-2026 outlines a comprehensive framework aimed at transforming Universiti Kebangsaan Malaysia (UKM) into a leading institution of higher learning by enhancing academic excellence, fostering research innovation, and promoting holistic student development. The HEPA plan, rooted in principles of privatization, aims to enhance student development by streamlining management processes and emphasizing student empowerment, autonomy, critical thinking, and active participation. This study investigates trends in student participation at UKM from 2021 to 2023, analyzing engagement levels across various faculties and institutes, both locally and internationally. Data analysis reveals a substantial increase in student involvement, with participation numbers rising from 772 in 2021 to 6,139 in 2023. This surge indicates a significant enhancement in both local and international student engagement, underscoring the university's commitment to fostering a more inclusive and participatory academic environment. The findings suggest that strategic initiatives under the HEPA framework, particularly those promoting student empowerment and autonomy, have effectively enhanced student engagement across multiple platforms. This research highlights the importance of continuous improvement in educational strategies to support student development and suggests implications for future programs that aim to further elevate UKM's status as a premier educational institution.

**Keywords:** student empowerment, strategic planning, student engagement, higher education, privatization

# Empowering Students for Future Success: A Comprehensive Approach to Soft Skills Development and Enhanced Graduate Employability

MUHAMMAD MEFFZAL BIN MOHD SAZWAN, AHMAD FIRDHAUS ARHAM, MOHD SUZEREN BIN MD JAMIL, NORINSAN KAMIL OTHMAN, NUR HASYAREEDA HASSAN, NURWINA AKMAL ANUAR, MUHAMMAD YAMIN BIN MOHD SHAROHHUDDIN

Universiti Kebangsaan Malaysia

## Abstract

Empowering students for future success with a comprehensive soft skills approach to develop and enhance graduate employability introduces a groundbreaking framework designed to equip students with crucial soft skills necessary for succeeding in the ever-changing job market. This comprehensive method combines contemporary educational theories with industrial demands to provide a holistic plan for developing competencies such as communication, teamwork, flexibility, problem-solving, and emotional intelligence. This model prioritizes active participation and practical application to ensure the acquisition of deeply ingrained skills. It achieves this through a combination of experiential learning, interactive workshops, and personalized mentorship. The aim of the research study is to determine the impact of soft skill development and enhanced graduate employability. The three objectives that are formulated in the research study are a) To study the relationship between verbal and written communication proficiency of communication skills b) To study the relationship between group dynamics and team formation of teamwork skill c) To study the relationship between leadership programs and opportunities for leadership development. The review indicates a substantial positive association between verbal and written communication skills. This leads to the conclusion that competence in one area favorably promotes proficiency in the other area. As an additional point of interest, the research highlights the significant influence that group dynamics have on the growth of teams, highlighting the significance of cohesiveness, communication, and effective leadership in shaping team dynamics. In addition, leadership programs play a significant part in developing leadership skills by offering participants opportunities for mentorship, structured learning experiences, and practical applications. This helps participants improve their capabilities, confidence, and effectiveness as leaders.

**Keywords:** Soft skill, communication skill, teamwork, leadership development, graduate employability.

# **Students' Perception on the Impact of Community Service and Volunteerism Experience on Social Skills at the Language Centre, National Defence University of Malaysia**

AIN NURAISHA BINTI MAHAZIR, NUR SYAFIQAH AB AZIZ

Universiti Pertahanan Nasional Malaysia

## **Abstract**

Community service and volunteerism are activities where individuals or groups offer their time and effort to help others or contribute to the well-being of their community without expecting financial compensation. At the National Defence University of Malaysia, students from the Language Centre have established a business entity called TELaH (The English Language House), which provides public speaking courses to nearby public schools. Since 2020, TELaH has offered this course with the goal of enhancing English language proficiency among school children, particularly those from the B40 economic group, as part of its social mission. The objective of this study is to explore the impact of community service and volunteerism learning on the social skills of students through projects such as the ones done by TELaH. This is a quantitative study where an online questionnaire via google form was distributed to Year 1 and Year 2 students at the Language Centre and analyzed using SPSS version 25.0. The findings showed a high alpha value (0.964), indicating strong correlation and consistent measurement of the same underlying construct. The community service and volunteerism project improved all tested social skills, with the greatest impact on 'Teamwork and Collaboration' with a mean score of 4.2388, and the least on 'Leadership.' With a mean score of 4.0547. The study also suggested that universities should thoughtfully design community service programmes to maximize their impact, making sure these initiatives not only promote personal development and civic responsibility but also meet the needs and expectations of students. Carefully planned community service and volunteer programmes help students build social and practical skills, cultivate empathy, and gain a deeper understanding of social issues, while also providing valuable career experience and networking opportunities.

**Keywords:** Community service, Volunteerism, TELaH, Social skills, Quantitative study.

# The Structure Used in Tertiary Education Sponsorship Programme by MARA and Its Sustainability Impact to the University Students

MUHAMMAD AQMAL NAJMI

International Islamic University Malaysia

## Abstract

Majlis Amanah Rakyat (MARA) offers a wide initiative educational programme especially for Malays and other indigenous Malaysians. The purpose of this article is to get more insight for one of those offers which is a convertible loan called Tertiary Education Sponsorship Programme (TESP) for students in Malaysia public university. The method used for getting the information is an in depth interview from several students who receive the offer, analysis on the programme document and information gathering from various journals to analyze their programme structure and its benefits to the students. Most students who received TESP MARA are satisfied with the financial aid given. It allows them to have proper expenditure discipline and get graduated with higher CGPA. The structure used in TESP MARA can be a leading example for any agency or company to offer their educational sponsorship.

**Keywords:** Sponsorship, convertible loan, education, financial aid.

# The Effectiveness Of The Role Of The Young Leaders In Encouraging The Young Generation To Develop Leadership Skills: Initiatives By Institute Of Young Leaders

RAM ERFAN ZUR NUQMAN RAM ZUZZAMAN, MUHAMMAD ZUHAIR HAZMAN ZOHARI

Universiti Teknologi MARA (UiTM) Shah Alam

## Abstract

The majority of youth (96%) recognize the importance of leadership in addressing the nation's most pressing issues, yet only one in three believes they possess the necessary skills to effectively lead, highlighting the urgent need to improvise policy and youth development program planning to better equip young people with the leadership skills necessary to tackle these critical challenges. Despite their willingness to participate, many young people feel disconnected from current methods of engagement and program execution, which often fail to resonate with them in this modern era, leaving them feeling unheard and unable to relate to older leaders. Previous research has largely failed to gather opinions directly from young people themselves, focusing instead on theoretical aspects of youth and leadership without truly considering what young people actually want, leading to the mistaken assumption that youth are not interested in developing their leadership skills. This research directly addresses the gap by collecting opinions from young people, specifically focusing on students at MARA Technological University who have participated in at least one program run by the Institute of Young Leaders at the university. We utilized a semi-structured interview format delivered through Google Forms and employed voluntary response sampling, a type of non-probability sampling, distributed across various online platforms to gather insights. Our findings reveal that young people genuinely desire to develop their leadership skills, as evidenced by their strong preference for leadership programs. This directly contradicts previous statistics and data, which suggested a lack of interest in leadership among youth, highlighting a significant discrepancy between the actual interests of young people and the prevailing assumptions about their engagement with leadership. Furthermore, youth prefer programs that are not old-school but executed in ways that suit them, with an emphasis on active participation in every session. They favor programs that allow them to provide opinions and contribute actively, rather than merely being passive listeners, thus offering them a platform to shine.

**Keywords:** youth, effectiveness, leadership, development programme

## Pertanian Tanpa Cangkul (PTC)

AININA NABILAH BINTI SHAMSUL BAHAR

Universiti Putra Malaysia

### Abstract

This project explores the implementation and impact of Pertanian Tanpa Cangkul (PTC). It is an initiative of community-based vertical farming to promote sustainable agriculture. PTC focuses on cultivating crops vertically to optimize space, reduce kitchen waste, and foster local food security. The project emphasizes easy maintenance and affordability to a wide range of community members. Through various community programs, this project examines the effectiveness of PTC in increasing food security, reducing environmental footprint, and empowering local communities. The data collection methods used for this project are community projects, participant observations, and feedback. Based on data collection, PTC not only contributes to sustainable agricultural practices but also fosters community engagement and economic opportunities through the production of composting materials and the sale of crops. This study provides valuable insights into the potential of community-based vertical farming initiatives to address food security challenges while promoting environmental sustainability and community resilience.

**Keywords:** Vertical farming, Sustainable agriculture, Technology, Food production

## Women in Leadership: Empowering Female Students Through Leadership Programs

NINI SYURYANI ZAINUDIN

Universiti Pendidikan Sultan Idris

### Abstract

This study explores the impact of leadership programs on empowering female students and their active participation in leadership roles. The research focuses on three primary objectives: analyzing the need for leadership programs specifically designed for female students, developing such programs, and obtaining expert evaluations to enhance their effectiveness. The study employs a qualitative approach, utilizing the Waterfall model to guide the systematic development of the leadership program. Data collection was conducted through interviews with experts in education and leadership, who provided insights and validation for the program's structure and content. The findings suggest that a well-designed leadership program can significantly boost female students' self-confidence, leadership abilities, and access to supportive social networks. The study also highlights the challenges faced by female students in assuming leadership roles, such as overcoming societal expectations and gender biases. Based on expert feedback, several recommendations are proposed to improve the program, including incorporating more interactive and experiential learning components, aligning the program with 21st-century educational practices, and ensuring the inclusion of mentorship opportunities. The implications of this research are vital for educators, policymakers, and institutions striving to cultivate more inclusive and effective female leadership in educational settings and beyond.

**Keywords:** Women in Leadership, Leadership Programs, Female Students, Higher Education, 21st Century Learning

## Harnessing Technological Advancements in Enhancing Student Activities: Shifting from Hard Copy Document Method to Online System for KMUKM Financial Management

WAN ALEEYA FITRIAH WAN SHAMSOL, MARIAM MASUAN, SHAHRINA SHAHRANI, MOHD SUZEREN MD JAMIL, NORINSAN KAMIL OTHMAN,  
AHMAD FIRDHAUS ARHAM

Universiti Kebangsaan Malaysia

### Abstract

This study aims to examine the necessity and effectiveness of an online system for the financial management of the Student Union of the National University of Malaysia (KMUKM). KMUKM is responsible for managing student activity funds, disbursing over MYR 1,000,000.00 each session to various student programs and activities. Traditionally, students have been required to submit five types of documents in hardcopy to KMUKM office in Pusanika, National University of Malaysia (UKM), resulting in significant difficulties such as time constraints and logistical challenges, especially for students from Kuala Lumpur and Cheras campuses. Additionally, the high volume of printed documents, peaking at nearly 200 applications weekly during peak seasons, raises environmental concerns. In response, a student from the Faculty of Technology & Information Science (FTSM), UKM, developed an online system; "Sistem Pengurusan & Permohonan Dana KMUKM" to streamline the application process, conserve resources, and promote a sustainable, greener campus. A survey conducted among 179 UKM students revealed that over 90% of respondents found the online system more convenient, time-efficient, and environmentally friendly. This initiative aligns with the Sustainable Development Goal (SDG) 9: Industry, Innovation, and Infrastructure, underscoring the importance of technological advancements in enhancing administrative processes and sustainability. In conclusion, the transition to an online system not only optimizes operational efficiency but also supports broader environmental and infrastructural goals, demonstrating a viable path forward for sustainable campus management.

**Keywords:** Online system, Financial management, Student Union of the National University of Malaysia (KMUKM), Technological advancements, Sustainable Development Goal (SDG).

## Challenges Faced by University Spin-Off Company to Commercialization and Internationalization

SITI HAJAR TUMERAN, MOHD AZRI JOHAN

Universiti Teknologi Malaysia

### Abstract

University spin-off companies are pivotal in translating academic research into commercial products and services, thereby contributing to economic development. Despite their importance, these companies encounter numerous challenges in their commercialization and internationalization efforts. This study investigates the key challenges faced by spin-off companies from Universiti Teknologi Malaysia (UTM), a prominent institution in technology transfer. The research aims to identify the entrepreneurial skills and financial capacities of UTM spin-offs and analyse the broader obstacles they face in commercialization and internationalization. Employing a mixed-methods approach, including literature review and primary data collection, this study offers comprehensive insights. Findings indicate that while UTM spin-offs exhibit a higher-than-average commercialization rate, they face difficulties in aligning research with industry needs, securing effective management teams, and accessing sufficient financial resources. Internationalization is further impeded by technological, market, and organizational barriers. This study enhances academic understanding of university entrepreneurship and provides practical recommendations for stakeholders to support the growth and global expansion of spin-off companies.

**Keywords:** University spin-off, Commercialization, Internationalization

## Factors And Effect of Lacking the Quality Student Leaders in Future

MUHAMMAD AIRUL AFZAN AZLAN, ZULKIFLI CHE HUSSIN, HAFIZ MEAH  
GHOUSE MEAH, MUHAMMAD ARIF ESA, MUHAMMAD NIFAIL RIFQI  
ROSLI

Universiti Sains Malaysia

### Abstract

In an education world especially in university, student leaders are well known in student life. Besides, leadership is the most important element that should be implemented and polished for students. However, to be a quality student leader, leadership elements are the most important elements that should be implemented. Nowadays, many students are still feeling shy and do not have a good self confidence to be a leader. Regarding this problem, the researchers come out with the main aim, which is to identify the factor that brought about the lack of the quality student leaders. There are two types of research methodology that have been used in this research which are quantitative and also qualitative methods. All the data have been collected from the surveying form that has already been blasting to the student leaders in Universiti Sains Malaysia. Based on that survey, the researchers found that there are 50 respondents who have answered the questionnaire. The division of the 50 respondents are 25 men while the others are women. These respondents are coming from the student leader group in Universiti Sains Malaysia. From this survey, it shows that the majority of the respondents agreed that the factors stated are the reason why there is a shortage of quality student leaders. At the same time, the respondents also know the effect if there are lacking quality student leaders. At the end of this research, the researchers will make sure that there will be more quality student leaders in future.

**Keywords:** Student leaders, Quality, Leadership.

# The Study of Different Temperature for Carbon Storage in Carbonate Rock

MUHAMMAD HAKIM BIN MOHD ZAIN, SHAZIERA BINTI OMAR

Universiti Teknologi Malaysia

## Abstract

The geological storage of carbon dioxide (CO<sub>2</sub>) in carbonate rock formations has emerged as a potential method for mitigating greenhouse gas emissions. However, the impact of temperature on carbon storage capacity and the associated storage mechanisms in carbonate rocks remains a critical knowledge gap. This study presents an experimental investigation to assess the influence of different temperatures on CO<sub>2</sub> storage in carbonate rock samples. The experimental setup involved carbonate rock specimens that were obtained from representative formations. The 500g carbonate rock samples were exposed to varying temperature conditions which are 30°C, 40°C, 50°C, 60°C, 70°C within a controlled laboratory environment. The efficiency of carbon storage capacity is measured by obtaining the value of porosity and water saturation of the core sample to quantify the amount of CO<sub>2</sub> retained within the rock matrix under different temperature regimes. The study examines the effects of temperature on CO<sub>2</sub> with different temperatures by measuring the volume of the water that has been displaced by injection of CO<sub>2</sub> in the core sample. Furthermore, the research explores the effect on the porosity and water saturation of the saturated core sample with different temperature conditions. The outcomes of this research enhanced the scientific basis for designing and implementing carbon capture and storage (CCS) projects utilizing carbonate rock formations. Ultimately, this knowledge will support the development of effective and sustainable CO<sub>2</sub> storage practices, fostering progress in global efforts to combat climate change and achieve carbon neutrality.

**Keywords:** Carbon storage, Carbonate rock, Temperature, Water saturation, Porosity.

# The Superiority of Zapin Dance Influences The Development of Malay-Nusantara Culture

MUHAMMAD FARID BIN ZAINAL

Universiti Malaysia Kelantan

## Abstract

Zapin dance, recognized as a cultural heritage of Johor, is known for its unique traditional characteristics. While it is popular among the Malay community, its origins trace back to the Middle East, influenced by the Arab Peranakan community. Initially performed solely by men, Zapin has evolved to include both men and women, with movements symbolizing their respective qualities. The dance features various styles, including Zapin Pekajang, Zapin Tenglu Mak Usu, and Zapin Lenga, each based on its region of origin but maintaining the core elements of Zapin Johor. Beyond Johor, states like Kelantan, Sarawak, and Kedah have their own versions of Zapin, such as Zapin Salor, Zapin Sindang, and Zapin Ghalit. However, the influence of foreign cultures has led to a decline in the appreciation of Zapin in Malaysia, particularly among the younger generation. This decline is partly due to stereotypes associating men who dance Zapin with being "sensitive." The study aims to assess Malaysians' knowledge of Zapin culture, focusing on its history, variations, and traditional costumes, through a quantitative survey methodology. The findings, analyzed using SPSS, reveal the level of knowledge among Malaysians regarding Zapin. These results can serve as a valuable resource for stakeholders to address this issue and promote Zapin as an enduring cultural heritage of the Malay community.

**Keywords:** History, Types of Zapin and Costumes

## The Predictive Roles of Peer Relations on Burnout Level among Fourth Year Counseling Students in Universiti Malaysia Sabah (UMS)

LEW LEE HONG, KOAY CHIA LING, PAN LI JUN, LOO BEE LING, KUO ZI  
SHI, SHARON ANAK ALBERT, DEBRA PALIK @ STANLEY

Universiti Malaysia Sabah (UMS)

### Abstract

This research is related to peer relations and burnout. The study aims to investigate the relationship between peer relations as a factor with burnout level, the level of the factor of peer relations, and the level of burnout among fourth-year counseling students in UMS. A total of fifty-nine respondents were randomly selected to take part in the quantitative research. The findings showed a weak correlation between peer relations and burnout levels. There is a weak and negative relationship between the 'quantity of intimate peer relationship' factor and burnout level ( $r = -.14$ ,  $n = 61$ ), while there is a positive relationship between the 'quantity of non-intimate peer relationship' factor ( $r = .12$ ,  $n = 61$ ). The results imply that there is a weak and negative relationship between counselor burnout and affective process factor ( $r = -.34$ ,  $n = 61$ ), whereas the weak but positive relationships are shown in counselor burnout, cognitive process factor ( $r = .241$ ,  $n = 61$ ), and behavioral process factor ( $r = .194$ ,  $n = 61$ ). Data showed many students have weak peer relations. Most students have low to medium relationship quality with their peers. The result is averagely distributed into different levels of burnout; there is no significant level of burnout among fourth-year counseling students. The other researcher verified connections between peers existed. However, many factors affect burnout. However, many factors affect burnout. A substantial cohort of students exhibits moderate levels of peer relations. This study suggests peer relations may not be the sole reason affecting fourth-year counseling students' burnout. Additional significant burnout factors should be studied.

**Keywords:** Burnout, Counseling student, Peer Relations

## **Effect of Kem Bina Insan Bitara to Enhance Leadership in Malaysia Madani Concept**

AMIRUL HAIQAL AMIRRUDIN BAKI

Universiti Pendidikan Sultan Idris

### **Abstract**

The Kem Bina Insan Bitara is designed to develop a new generation of leaders aligned with the values and principles of Malaysia Madani. This concept emphasizes a civil society grounded in compassion, respect, inclusiveness, and resilience. The camp aims to foster these values in the students, equipping them with the leadership skills necessary to effect positive societal change. The main objective of this study is to analyze the effect of Kem Bina Insan Bitara to enhance leadership in the Malaysia Madani concept. The camp's curriculum integrates personal development, community engagement, and strategic leadership training through interactive workshops, team building, and practical activities. This study uses interview instruments to obtain relevant information for this study. The interviews were conducted with two students who had joined the camp and one lecturer. Based on the findings, we found that Kem Bina Insan Bitara enhances the leadership in the Malaysia Madani concept that develops holistic students in UPSI.

**Keywords:** Kem Bina Insan Bitara, Malaysia Madani, holistic.

## Artificial Intelligence Driven Personalization in Education: A Pathway to Improve Learning

RAJA NUR ALIESA RAJA HUSAIN

Universiti Pendidikan Sultan Idris

### Abstract

Artificial intelligence (AI) is revolutionizing the education sector by providing personalized learning experiences that cater to individual student needs. This study explores the impact of AI-driven personalization in education, highlighting its potential to enhance learning outcomes and engagement. Through adaptive learning technologies, AI can analyze student performance data and adjust content delivery to match each learner's pace and style, creating a more tailored educational experience. This approach not only addresses diverse learning needs but also empowers educators to identify and support struggling students more effectively. We examine case studies and recent advancements in AI applications within educational settings, demonstrating significant improvements in student achievement and motivation. The studies also discuss the challenges and ethical considerations of implementing AI in education, emphasizing the importance of data privacy and equitable access. Ultimately, AI-driven personalization offers a promising pathway to improve learning by making education more inclusive, efficient, and responsive to the needs of every student.

**Keywords:** Artificial Intelligence (AI), Personalization, Education, Learning Outcomes, Adaptive Learning, Student Engagement, Educational Technology.

## Development of The Roboteacher Module For The Topic of Mechatronic Design in Form 3 Design And Technology Subject

MOHAMAD IKHWAN RAMLI, IRDAYANTI MAT NASHIR

Universiti Pendidikan Sultan Idris

### Abstract

The development of the RoboTeacher Module is a teaching aid provided to assist the teaching and learning sessions in the classroom. The main objective of the study is to analyze the need for module development, then develop the module, and obtain evaluations from experts who provide opinions and suggestions for improvements on the developed module. This study uses an interview approach and the WATERFALL Model was applied in the development of the module for this study. This study uses interview instruments to obtain relevant information and data to answer objectives 1 and 3 of this study. The interviews were conducted with 3 experts in the field of electronics and the interviews used semi-structured questions to validate the development of the RoboTeacher Module. Based on the interview findings, the researcher found that the RoboTeacher Module helps teachers in the PdPc process. Improvements that can be made include creating a teacher version that carries out 21st-century learning activities, adding components such as a Touch Sensor for more challenges, and making the module colors more attractive.

**Keywords:** RoboTeacher Module, Mechatronic Design, Design and Technology Education, Form 3, 21st Century Learning.

## Achieving Financial Autonomy: Income Strategies for Student Representative Councils

FIRDANISH RAFIQUE MOHD HAMID, MUHAMMAD IMAN AZHAR,  
MUHAMMAD IMRAN AMIR NUSHI, SITI NURHIDAYAH IBERAHIM,  
AHMAD FIRDHAUS ARHAM, MOHD SUZEREN JAMIL, NORINSAN KAMIL  
OTHRMAN

Universiti Kebangsaan Malaysia

### Abstract

The recent amendments to the University and University College Act 1971 (AUKU) have significantly reshaped the financial landscape for Student Unions (SUs) and Student Representative Councils (MPPs) in Malaysia. This paper explores how these legislative changes have influenced financial autonomy and sustainability among Malaysian SUs by discussing diverse income generation strategies. A comparative analysis is conducted focusing on local SUs, specifically the National University of Malaysia Student Union (KMUKM) and the International Islamic University Malaysia Student Union (IIUMSU), as well as an international model, the Sheffield Students' Union. KMUKM predominantly relies on the fixed Student Activity Fees mandated for all students, providing a stable yet constrained financial foundation. In contrast, IIUMSU, functioning as an NGO, achieves financial independence through a mix of membership fees, sponsorships, and social enterprises, but faces variability in income. The Sheffield SU's model, characterized by substantial university subventions combined with entrepreneurial activities and student fundraising, offers insights into achieving a balanced and diversified revenue stream. The findings underscore the importance of financial diversification, with recommendations for Malaysian SUs to explore alternative income sources, enhance institutional support, and invest in financial management capabilities. By drawing on successful international practices, Malaysian SUs can advance their financial autonomy and effectively support their student communities, ensuring long-term sustainability.

**Keywords:** AUKU Amendments, Student Unions, Income Generation Strategies, Financial Sustainability.

## Jelajah Putra (Pertanian Untuk Rakyat) Humanising Society For Sustainable Future

UMAIRAH FARISAH AHMAD YUZRI

Universiti Putra Malaysia

### Abstract

Sustainability involves maintaining resources over time and ensuring developments have minimal environmental impact. The United Nations emphasizes integrating social, economic, and environmental factors to achieve sustainable development, leading to the creation of the Sustainable Development Goals, SDGs (United Nations, 2015). Universiti Putra Malaysia supported SDGs through various initiatives including the Jelajah PUTRA programme that aims to improve community welfare in Borneo through sustainable agriculture and humanizing society. The program emphasizes the transfer of agricultural knowledge through the "Pertanian untuk Rakyat" initiative, by sharing sustainable farming and food security practices with local communities. This study explores the impact of education on raising awareness in preserving nature and practicing sustainability in daily lives. In addition to foster a culture of volunteerism among UPM students. The expected outcomes include increased awareness of the importance of education and volunteerism, improved agricultural practices, and stronger ties between UPM and global academic institutions. Jelajah PUTRA exemplifies the role of universities in driving social change and underscores the significance of interdisciplinary approaches to achieving a sustainable future.

**Keywords:** Sustainable Agriculture, Community Welfare, Education, Volunteerism, Food Security

## Evaluating the Influence of Leadership Engagement on Graduate Marketability and Career Prospect

NURUL SHUHADA MOHD FAIZAL, MUHAMMAD IRFAN ARIFF MOHD ASRI, SHARIFAH AINA SABRINA SAYED HASSAN

University Sultan Zainal Abidin

### Abstract

This paper examines the influence of leadership participation on the marketability of graduates and their career. Leading research findings from recent years indicate that universities should not only teach technical skills but also provide students with significant opportunities to participate in leadership, which builds crucial soft-skills knowledge that employers heavily demand. This paper also attends to the infusion of practical, real-world elements in academic programs and the manner in which career education and development opportunities are integrated into the university experience. While such employability activities do not make equal contributions, available evidence points to a better contribution by a balanced educational experience in terms of academic endeavor, practical training, and leadership development, capable of preparing entrants with strong employability status for the highly competitive job market and supporting their long-term career success.

**Keywords:** Graduate employability, Leadership engagement, Soft skills, Career prospects, University education.

## Comparison of Physical Activity Levels Before and After MCO of COVID-19 Pandemic Among Mid-Adults in Johor Bahru

MOHD FAIZ BIN AYUB, HO ZE ZONG

Universiti Tun Hussein Onn Malaysia

### Abstract

This study explores the shifts in physical activity (PA) patterns among 423 healthy mid-adults in Johor Bahru, Malaysia, amidst the far-reaching consequences of the initial Movement Control Order (MCO) during the COVID-19 pandemic. Stringent confinement measures implemented during the MCO, likely limiting access to usual activities like gym visits, outdoor walks, and team sports, resulted in a significant decrease in overall PA (17.5%) and walking (60.3%) following the MCO's implementation. Notably, the group engaging in the highest levels of PA prior to the MCO experienced the most substantial decline (28.4%). Gender disparities emerged, with men exhibiting a 30% decrease in PA compared to a 12% decrease for women. Interestingly, women also showed a 13% increase in moderate PA ( $p<0.05$ ). This might be attributed to women shifting towards alternative activities like home-based workouts or utilizing moderate PA as a coping mechanism during the challenging times. These findings highlight the profound impact of the MCO on physical activity levels among middle-aged adults in Johor Bahru and emphasize the need for tailored interventions, particularly for younger individuals and those previously engaged in high levels of activity, to counteract the observed decline in self-reported PA.

**Keywords:** Physical Activity (PA), Movement Control Order (MCO), COVID-19 Pandemic, gender disparities, Home-based workouts.

# The Surface Crack Concrete Sleeper Detection System Using Arduino

AIMAN MUHAMMAD AQIL KAMARUDZAMAN

Universiti Tun Hussein Onn Malaysia

## Abstract

The Surface Crack Concrete Sleeper Detection system using Arduino is an innovative project aimed at enhancing the safety and efficiency of railway operations by automating the monitoring and analysis of railway tracks. This system leverages a high-resolution camera and an Arduino-integrated rotary encoder to detect and measure surface cracks in concrete railway sleepers. The primary objectives of this research are to develop an autonomous crack detection system, implement an early warning mechanism for timely maintenance, and provide precise location information for detected cracks. The study focuses on the integration and programming of hardware components, such as the camera and rotary encoder, with the Arduino board, and the design of a user-friendly software application for remote monitoring and control. The system is expected to overcome the limitations of traditional manual inspections and existing automated methods, offering a more accurate, efficient, and cost-effective solution. By validating the system in a real-world setting, this research aims to contribute significantly to the safety, reliability, and sustainability of railway infrastructure, potentially transforming railway maintenance practices worldwide. The anticipated outcomes include autonomous real-time monitoring, precise crack detection, and efficient maintenance planning, ultimately reducing operational risks and maintenance costs.

**Keywords:** Concrete sleeper monitoring, Arduino-based crack detection, Remote monitoring system.

## **Empowering Tomorrow's Leaders: Administrative Strategies for Cultivating Talent Among Universiti Sains Malaysia Students**

AIDA SHUHAIDA MUSTAFA, MAZLIFENDIRIZAN MD REJAB & AZRIQ  
RASHID HUSSIN

Universiti Sains Malaysia

### **Abstract**

In our rapidly changing world, fostering talent among university students is crucial for developing future leaders and innovators. This study examines the strategies used by Universiti Sains Malaysia (USM) to nurture talent among the students at the Engineering Campus. Understanding the vital role of administration in student growth, this study explores USM's comprehensive approach to student empowerment. Through a combination of academic excellence, extracurricular activities, and mentorship programs, USM's administration creates an environment that supports talent exploration and development. The focus is on cultivating leadership abilities, critical thinking, and interdisciplinary collaboration, preparing students to tackle complex global issues. Besides, this study also highlights the importance of an integrated administrative framework that not only upholds academic excellence but also promotes overall student development. By offering tailored initiatives and support systems, USM strives to produce graduates who are skilled in their fields and possess the mindset to effect positive change in society. Different programmes and initiatives, like contests among dormitories called "Desasiswa," aid in developing student skills and abilities by involving them in positions such as event coordinators, hosts, and performers. The emphasis will be on how students at Desasiswa in the Engineering Campus, specifically Desasiswa Jaya Lembaran Utama (DJLU), ensure that associations collaborate effectively to enhance and provide opportunities for students to showcase their talents. The details of these efforts and their impact on student development at USM will be further discussed in this study.

**Keywords:** Talent development, university administration, student development strategies, Desasiswa USM.

## Design Approaches of Metallic Functionally Graded Porous Scaffold (FGPS) to Serve Mechanical Properties

NUR AQILA KADIR HUSSEIN

Universiti Sains Malaysia

### Abstract

One of the critical issues in load-bearing application is the design of bone scaffolds and the material implants used to replicate the mechanical properties of the host bones. Regular unit cells of triply periodic minimal surfaces (TPMS) were verified as an effective and feasible tool for designing porous and interconnected structures with desired functional gradients. The combination of functionally graded porous scaffold (FGPS) with TPMS-based exhibited fascinating properties, such as high strength, excellent energy absorption and minimizing material requirements. Metallic scaffold has been extensively explored over decades in clinical orthopedics and dentistry implants due to its excellent mechanical properties, and incomparable corrosion resistance. This condition significantly reduces the stiffness mismatch between native bone and implant, as well as stress-shielding phenomena, which can contribute to early implant failure. This paper reviews the state-of-the-art of design methods with controlled gradient patterns of TMPS structure of various types of porous metals. Simultaneously, it will have a greater understanding as a reliable therapy of clinical use in load-bearing applications, since it will replicate the topological and mechanical properties of actual bone.

**Keywords:** Triply periodic minimal surfaces, functionally graded porous scaffold, metallic, stress-shielding, load-bearing.

# Synthesizing Industry Demands for Fourth Industrial Revolution Skills in Technical and Vocational Education and Training (TVET) Curriculum to Prepare Future-Ready Graduates

EVARINA AMIRON, AZLAN ABDUL LATIB

Universiti Teknologi Malaysia

## Abstract

This study presents a synthesis of qualitative and quantitative findings on key Fourth Industrial Revolution (4IR) skills for restaurant workers in four Malaysian states which are Penang, Kuala Lumpur, Selangor and Johor. Employing a pragmatic paradigm and a sequential exploratory mixed methods approach, the research integrated data from restaurant managers, workers, skills trainers, curriculum developers, and academicians. Thematic analysis of interview data in the qualitative phase was followed by a quantitative phase to identify key 4IR skills. Results indicate that risk awareness, operational handling of 4IR technology, and communication skills are the most significant 4IR skills. Notably, there were differing views between industry practitioners and curriculum developers on the importance of communication skills in 4IR contexts. Nonetheless, qualitative insights highlight the critical role of communication skills in the effective use of 4IR technologies in the Food Services Industry, emphasizing the need for their integration into higher education curricula such as TVET to prepare future-ready graduates.

**Keywords:** Mixed Methods, Fourth Industrial Revolution Skills, Food Services Industry, TVET Curriculum.

## Postgraduate Training Needs at UTM: A Critical Review of Student Challenges

MUHAMMAD RAMZIUDDIN ZAKARIA, NORAH MD NOOR, EKA AMIRA RAHIM & NOR AZFALELA JAMALUDIN

Universiti Teknologi Malaysia

### Abstract

The Postgraduate Student Society (PGSS) at Universiti Teknologi Malaysia (UTM) plays a critical role in enhancing the academic and social experiences of postgraduate students by organizing a wide range of activities and training. However, the courses offered to postgraduate students have not been critically reviewed. Therefore, this systematic review aims to identify the primary challenges faced by postgraduate students in their academic journey and to verify whether the training and support programs that have been offered by UTM postgraduate societies are still relevant to enhance their academic experience. The PRISMA (preferred reporting items for systematic reviews and meta-analysis) criteria are used to guide this systematic review, which uses the Web of Science (WoS) electronic database. A thorough search of the electronic database utilising keywords and search strings yielded 1724 publications published between 2010 and 2024, with 29 studies related to the topic highlighted based on the inclusion and exclusion criteria identified. The findings reveal that some challenges faced by postgraduate students include academic writing and communication, time management, research skills, and work-life balance. Additionally, the training provided by UTM postgraduate societies is still relevant to the students' needs. By systematically reviewing existing literature, this study provides a comprehensive overview of the obstacles postgraduate students encounter and proposes effective training interventions to support their academic and professional development.

**Keywords:** postgraduate societies, PRISMA, work-life balance, research skills, postgraduate students

## Strategic SWOT Analysis for Advancing Postgraduate Student Society in Universiti Teknologi Malaysia

MOHAMAD AIZAD MOHD MOKHTAR, AFIFAH MARDHIAH MOHAMED RADZI, CHIA JING JIE, WONG PUI CHING, NUR SYAHIRAH FAIHA SHAWALLUDIN, NORAH MD NOOR, ROSHAFIMA RASIT ALI & NOR AZFALELA JAMALUDIN

Universiti Teknologi Malaysia

### Abstract

The Postgraduate Student Society (PGSS) plays a significant role in representing postgraduate students in Universiti Teknologi Malaysia (UTM). However, there is a need to advance PGSS to another level to improve the overall working system in PGSS. Hence, SWOT analysis is a great tool to identify the noteworthy current condition of PGSS. Results show that a diverse team, strong support from faculty and the university, and well-organized training programs are the strengths key points. Weaknesses involve stress and mental health issues, poor time management, and weak leadership with no succession plan. Opportunities lie in connections with other postgraduate students, while threats include financial constraints and complex program applications. To address the weaknesses and threats identified, potential solutions include providing mental health support services, physical wellness programs, time management workshops, and leadership training. Additionally, external threats like financial constraints can be mitigated by applying for external funds and industry collaboration, while improving marketing strategies can enhance student engagement. Overall, PGSS UTM would need to maintain and preserve the existing qualities while addressing the concerning issues.

**Keywords:** SWOT analysis, Postgraduate students, Student society, Leadership.

# Artificial Intelligence-Based Wayfinding Systems In Recreational Parks: An Analysis Of Enhancing Elderly Navigation And User Experience

TEO KOK WEI

Universiti Teknologi Malaysia

## Abstract

Malaysia is experiencing demographic aging, characterized by a significant 6% growth proportion of elderly individuals aged 60 and above by the year 2030. Recreational parks, vital for physical and mental well-being, often become less accessible to elderly individuals due to navigation difficulties and safety concerns. As people age, physiological changes affect sensory functions, making navigation challenging and highlights the critical need for innovative solutions to support elderly individuals' independence and well-being, based on their unique needs and requirements. By analyzing current literature and insights based on three research objectives, the research aims to examine current challenges faced by elderly individuals when navigating in recreational parks, identify existing AI technologies and their applications in enhancing wayfinding systems to improve accessibility and user experience for elderly park-goers in recreational parks, determine the need and requirements through AI technologies and their applications for enhancing wayfinding systems to improve accessibility and user experience for elderly park-goers in recreational parks.. A framework is generated in order to answer each research objective and interconnect the results, complementing Sustainable Development Goals (SDGs) targets set by the United Nations. Collaborative efforts between park management, technology developers, and community stakeholders including the government will be essential in advancing AI applications tailored to diverse park settings, which upholds the Malaysia MADANI concept for the wellbeing and welfare of the elderly.

**Keywords:** Artificial Intelligence (AI), Elderly, Recreational Parks, Accessibility, Wayfinding.

# A Modest Approach in the Implementation of Worship Practices during the COVID-19 Pandemic based on Fiqh al-Ḍarār Yuzāl and Maqāṣid Syarī'ah Against the Health Prevention Measures of the Ministry of Health Malaysia

WAN MOHD AKMAL WAN HALIM, JASNI SULONG

Universiti Sains Malaysia

## Abstract

A simple approach in the practice of worship is something demanded by Islam. Naturally, the practicality of simple religious practices will occur as a result of simple thinking that is not extreme. During the outbreak of the COVID-19 pandemic, polemics arose from the community due to differences of opinion from Islamic scholars regarding practices related to religious activities such as worship practices involving mosques and suraus. In addition, it has become a polemic related to the issue of funeral management and marriage. The polemic has an impact because some of the views resulting from the polemic contradict the decision of the government authority, especially regarding the standard operating procedure (SOP) that has been set. This study was conducted to see if the decisions taken by the authorities coincided with the simple method of Islamic jurisprudence that could be practiced and suited to the emergency situation. This study uses a qualitative method which is a document analysis study by referring to academic journals and books related to fiqh al-ḍarār yuzāl and maqasid sharia to see a simple legal perspective. This study also uses the interview method to obtain more relevant research results. This study found that the use of additional texts such as fiqh al-ḍarār yuzāl and maqasid sharia is able to observe simple laws in desperate situations and teach simple and appropriate practices according to the situation and era. Therefore, in addition to the authorities, Islamic scholars who have a role in society need to take advantage of the use of additional texts such as jurisprudence and maqasid syariah as an instrument of law production to express simple thinking that is compatible with the demands of syariah as well as have a positive impact on the harmony of society which can also avoid polemic.

**Keywords:** Moderation, legal maxim, al-ḍarār yuzāl, maqasid syariah, Covid-19

## Enhancing Student Leadership Development: Strategies, Challenges, and Best Practices with Insights from Universiti Sains Malaysia

SHAHRIZAL NAZRI, HAFIZ MEAH GHOUSE MEAH, MU'AZZAH ISMAIL,  
NURUL FARHANA CHE HASSAN, MOHD FARIZ IZWAN KOMARUDIN

Universiti Sains Malaysia

### Abstract

Student leadership development within Higher Education Institutions (HEIs) is crucial, playing a pivotal role in students' holistic growth and the enhancement of institutional quality. This manuscript examines the tactics, obstacles, and most effective methodologies for cultivating student leadership, concentrating specifically on Universiti Sains Malaysia (USM). The research underscores present strategies, encompassing experiential learning, mentorship, and leadership training, while scrutinizing the programs and initiatives that have been put into practice. The article deliberates the impediments encountered by USM, such as limited resources and the challenge of harmonizing academic responsibilities with leadership commitments, and introduces inventive strategies and exemplary practices, such as leveraging digital platforms and embracing cross-cultural endeavors. Moreover, the document scrutinizes the evaluation and appraisal of leadership schemes, displaying efficient metrics and feedback mechanisms employed. Furthermore, it examines the influence of student leadership on institutional advancement, acknowledging its contributions to campus vitality, professional pathways, and institutional standing. The study culminates by outlining forthcoming trajectories and proposing policy suggestions to augment student leadership development in HEIs, with a specific emphasis on Malaysian HEIs. Its objective is to furnish valuable insights for academicians, policymakers, and vested parties in the sphere of higher education, accentuating the significance of nurturing robust student leadership initiatives to equip forthcoming leaders.

**Keywords:** Student Leadership Development, Higher Education Institutions, Experiential Learning, Mentorship, Leadership Training.

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