



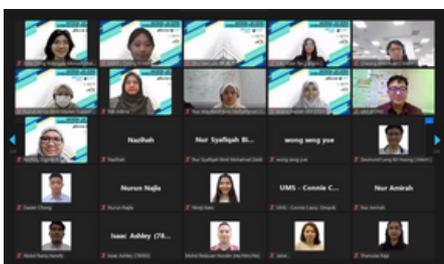
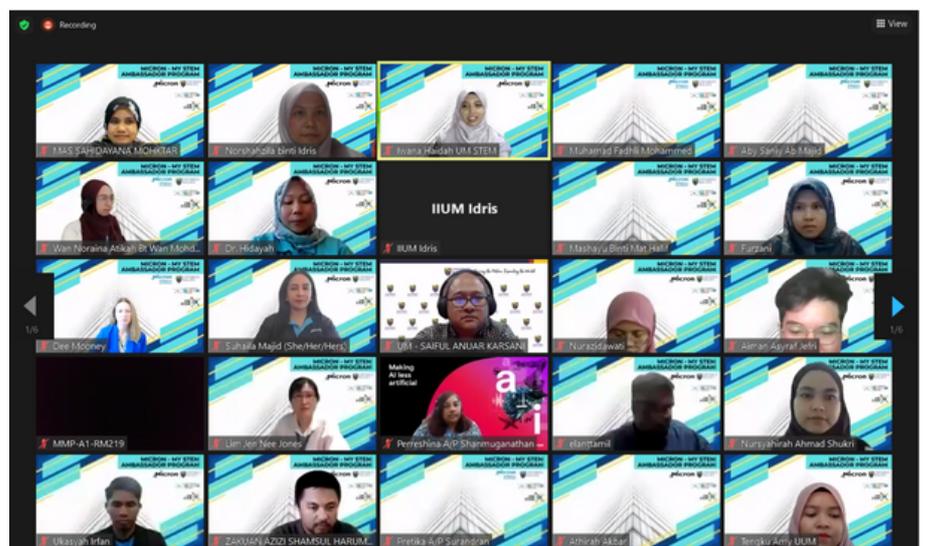
UM  
STEM  
SCIENCE TECHNOLOGY ENGINEERING MATHEMATICS

# UM STEM ACTIVITIES

## CLOSING CEREMONY OF MICRON - MY STEM AMBASSADOR 2022/2023

20 September 2023

The Micron - My STEM Ambassador Program culminated with an online closing ceremony on September 20, 2023. Universiti Malaya (UM) and 14 other universities collaborated to organize this program, which was made possible by the generous grant provided by the Micron Foundation. The program consisted of 30 initiatives, including seminars, lectures, group work, and STEM-related visits, all aimed at empowering students holistically in innovation, technology, entrepreneurship, social skills, and volunteerism. Additionally, the program featured Women in STEM and Persons with Disabilities initiatives, which enabled female and disabled students to participate in STEM-related activities. Over 9,610 participants, including B40 students, 4,884 women and 12 individuals with disabilities, were able to benefit from these programs, which fostered productive relationships between universities and the local community. The Micron - My STEM Ambassador Program was a resounding success and has set the standard for similar initiatives in the future.





## PROGRAMS AND ACTIVITIES: MICRON - MY STEM AMBASSADOR 2022/2023

	Code Battle 9 November 2022		Program My STEM Ambassador: STEM Projek 23 November 2022
	Mathematics Online Challenge 13 November 2022		My STEM Ambassador : Lawatan Penerokaan STEM di Petrosains 17 June 2023
	MY STEM Ambassador Leadership Camp 2022 25-27 November 2022		My STEM Ambassador: Lawatan Penerokaan STEM di FRIM 24 June 2023
	Software Engineering Innovation Day 2022 23 December 2022		International STEM Exhibition, Industrial Expo, Education Fair & Book Fair 14-16 December 2022
	Knowledge Sharing Session: Women in Software Industry 23 December 2022		Kolokium Kajian Tindakan STEM Berimpak Tinggi PPD Cameron Highlands Tahun 2022 7 December 2022
	STEM Virtual Mentor Mentee Session 15 January 2023		Virtual Reality Gamification for STEM Education Workshop - IPG Kampus Bahasa Melayu, Kuala Lumpur 31 January 2023
	STEM Mentor Mentee Programme Online Video Competition Sem 2 2022/2023 18 June 2023		Virtual Reality Gamification for STEM Education Workshop - IPG Kampus Batu Lintang, Kuching, Sarawak 22 February 2023
	Integrated Design Project (IDP) 2023 21 June 2023		Python Workshop 4 March 2023
	Rukun Negara dan Drone 2023 di Raudhah Autism, Sepang 24 June 2023		Online Talk RMM x Girls in Tech KL 24 March 2023
	Use of Big Data and Artificial Intelligence in Property Tech 13 January 2023		Bukit Kuda Outreach - STEM Workshop 24 March 2023
	My STEM Bridge Challenge 13-14 January 2023		Joy Edu Care Centre Outreach - Mbots Workshop 21 June 2023
	STEM Day 4-5 January 2023		Women in Science and Engineering (WISE) 24 June 2023
	Program My STEM Tadika Ranau: Syoknya Stem 17 February 2023		Workshop on Design and 3D Print Rocket 2023 13 May 2023
	Program Bersama Komuniti Kampung Rapak Dan Kampung Sinarut 18 February 2023		IIUM My STEM Week 2023 3 June 2023
	STEM in Agrotourism: Research-Based Learning the Hands-on Innovation Project at Kabin Dukati 26 January 2023		Robotics From Scratch: Robotics and Future 10 June 2023

# Knowledge Sharing and Policy Dialogue for Enhancing STEM-related Generic Skills in TVET/Skills Training

26 July 2023

Pullman Kuala Lumpur Bangsar Hotel

UM-ILO-UK Partnership

On 26th of July 2023, UM organized a knowledge sharing and policy dialogue session co-hosted with the ILO and the Ministry of Human Resources (MOHR). The event was conducted at Pullman Kuala Lumpur Bangsar Hotel with an attendance of 30 representatives from several agencies and industries such as representatives from TVET Coordination Unit, Ministry of Human Resources, Ministry of Science, Technology, and Innovation (MOSTI), Ministry of Education (MOE), Ministry of Higher Education (MOHE), Centre for Instructor and Advanced Skill Training (CIASST), Talent Corporation Malaysia Berhad (TalentCorp), Planning, Development and International Division, Department of Skills Development, and Manpower Division, MOHR, MIDA, Ministry of International Trade and Industry Malaysia (MITI), Master Builders Association Malaysia (MBAM), Malaysia Trades Union Congress (MTUC), Federation of Malaysian Manufacturers (FMM), Institut Kemahiran Belia Negara Naka and LSAB IBS Sdn. Bhd.



# UM-AKEPT GLOBAL SERIES: Skills for The Workforce of The Future Conference

9 - 10 August 2023

Dewan Tunku Canselor, Universiti Malaya

AKEPT in collaboration with Universiti Malaya and Talent Corp

AKEPT, in collaboration with Universiti Malaya and Talent Corp, has organized an event titled AKEPT Global Series: Skills for the Workforce of the Future Conference. This two-day event aims to address the challenges and issues of managing talent for the future workforce, particularly in critical occupations, through keynotes and forums delivered by stakeholders from governmental bodies, industry, and relevant agencies.



# **LAWATAN KOLEJ VOKASIONAL PERDAGANGAN, JOHOR**

7 September 2023

**Kolej Vokasional Perdagangan, Johor**

Pusat STEM UM telah menerima lawatan seramai 25 pelajar dan 13 guru pengiring bagi meneroka pengalaman untuk mempelajari STEM Digital melalui pembinaan 'mood lamp' menggunakan Arduino. Program ini dimulakan dengan ucapan alu-aluan oleh Pengarah Pusat STEM UM, Ir. Dr. Mas Sahidayana Mohktar dan diteruskan dengan sesi penerangan mengenai STEM Digital oleh Cik Syahirah dan fasilitator STEM yang lain.





# PROGRAM MENARA GADING SMK TAMAN TUANKU JAAFAR

13 September 2023

SMK Taman Tuanku Jaafar, Negeri Sembilan

Pusat STEM UM, Pusat Asasi Sains Universiti Malaya (PASUM) dan *Marketing and Recruitment Division (MRD) - Study @ Universiti Malaya* telah bekerjasama bagi menjayakan program lawatan bersama 77 pelajar dan 7 orang guru ke Universiti Malaya.

Program dimulakan dengan ucapan aluan oleh Pengarah Pusat STEM UM, Ir. Dr Mas Sahidayana Mohktar dan diteruskan dengan lawatan ke Rimba Ilmu *Botanic Garden*, Universiti Malaya bagi meneroka keindahan pelbagai spesies tumbuhan serta hidupan lain yang berada di dalam taman botani ini. Seterusnya, para guru dan pelajar dibawa ke Perpustakaan PASUM untuk melakukan aktiviti STEM seperti *Rubber-band Car Challenge* dengan bantuan fasilitator dari Pusat STEM UM dan PASUM. Program ini kemudiannya diteruskan dengan Taklimat Kemasukan ke PASUM serta Universiti Malaya yang disampaikan oleh Puan Tuty Haryati Kassim (MRD UM) di Auditorium, Bangunan *High Impact Research*, UM.



# **LAWATAN SK BUKIT TEMBAKAU, MERLIMAU, MELAKA**

19 September 2023

SK Bukit Tembaku, Merlimau, Melaka

Pusat STEM UM telah menerima lawatan daripada pelajar-pelajar tahap dua serta guru SK Bukit Tembaku. Program lawatan ini dimulakan dengan ucapan aluan oleh Timbalan Pengarah, Pusat STEM UM, Dr Mahanom Jalil. Kemudian, para pelajar dibawa ke Makmal Analisa Pergerakan (*Human Motion Lab*), Jabatan Kejuruteraan Bioperubatan di Fakulti Kejuruteraan. Di makmal ini, para pelajar dan guru diberi pendedahan mengenai analisa pergerakan badan serta imbangan yang dikendalikan oleh Puan Hanie dan Encik Adhli. Seterusnya, para peserta lawatan telah dibawa ke Muzium Geologi, Jabatan Geologi, Fakulti Sains bagi mempelajari mengenai bahan mineral, batu, fosil dan pelbagai koleksi menarik lain yang terdapat di muzium ini. Sesi penerangan telah dikendalikan oleh Dr. Muhammad Hatta Bin Roselee dan Dr. Arindam Chakraborty iaitu Pensyarah Kanan, Jabatan Geologi, UM.





# BENGGKEL DIGITAL STEM & TRANSLASI MODUL STEM KE DALAM RANCANGAN PENGAJARAN HARIAN

21 September 2023

Institut Pendidikan Guru (IPG) Kota Bharu

Selain lawatan, Pusat STEM UM telah menerima kehadiran peserta dari Institut Pendidikan Guru, Kampus Kota Bharu, Kelantan (IPGKKB) bagi mengikuti Bengkel Digital STEM & Translasi Modul STEM ke dalam Rancangan Pengajaran Harian.

Bengkel telah diadakan di Red Cube 1, Fakulti Kejuruteraan UM. Bengkel dimulakan dengan ucapan aluan oleh Timbalan Pengarah, Pusat STEM UM, Prof. Madya Dr Hidayah Mohd Fadzil. Kemudian, para peserta yang merupakan pelajar-pelajar tahun kedua jurusan Matematik di IPGKKB ini didedahkan dengan modul STEM digital, serta membuat model Rancangan Pengajaran Harian berdasarkan modul STEM yang telah dipelajari.



# STEM, AI & ROBOTICS & AI social impact activities for Kita-Untuk-Kita (K2K) programme. Program Perumahan Rakyat (PPR)



# Persidangan STEM Peringkat Negeri Wilayah Persekutuan Kuala Lumpur 2023

26 Oktober 2023

Fakulti Kejuruteraan, Universiti Putra Malaysia (UPM)

Lembaga Jurutera Malaysia dan Pusat STEM UM telah terlibat dalam aktiviti STEM/TVET sempena Persidangan STEM Peringkat Negeri Wilayah Persekutuan Kuala Lumpur 2023 yang diterajui oleh Unit Sains dan Matematik, Sektor Pembelajaran, Jabatan Pendidikan, Wilayah Persekutuan Kuala Lumpur bersama-sama Fakulti Kejuruteraan, Universiti Putra Malaysia (UPM). Seramai 70 orang pelajar sekolah menengah telah terlibat menyertai program ini. Antara aktiviti yang dilakukan adalah cabaran mereka litar elektrik, membina struktur, dan mereka *rubber-band car*.



# Journey Through Time at the Universiti Malaya Geology Museum Open Day!

4 November 2023

Geology Museum

Geology Department in collaboration with UM STEM Centre

Universiti Malaya Geology Museum has organized the Geology Museum Open Day 2023, for people to come and discover the wonders of our planet's past, present, and future. 🌍

🧐 What to Expect:

🗣️ Fascinating Talks: Immerse yourself in the world of geology with captivating talks by expert scientists. Learn about the Earth's formation, the age of rocks, and the secrets of fossils.

🎨 Art Competitions for Young Explorers: An exciting art competitions for children below 10 years old and below 20. This year's theme is "The Ages of Reptiles." Unleash your creativity and depict the incredible creatures that once roamed our planet. 🏆🎨



UNIVERSITI MALAYA Department of Geology  
www.geology.um.edu.my

## GEOLOGY MUSEUM OPEN DAY 2023

**DATE** 04 November, 2023 **TIME** 10:00 - 15:00 HRS **FREE ENTRY**

**DR. RU SMITH**  
Independent Geologist, KL, Malaysia

**DR. LEE CHAI PENG**  
Ex-Professor, Department of Geology, UM, Malaysia

**PROF. MOHD SHAFEEA LEMAN**  
Emeritus Professor, Langkawi Research Centre, UKM, Malaysia

**DR. MUHAMMAD HATTA ROSELEE**  
Department of Geology, UM, Malaysia

**DR. ROS FATIHA HAJI MUHAMMAD**  
Department of Geology, UM, Malaysia

IN ASSOCIATION WITH: AAPG GSM UM STEM



**Group 1 winners**

1st Prize: Nurul Hafya Hannani

2nd Prize: Yunus Saqlain

3rd Prize: Liew Shin Yee

**Group 2 winners**

1st Prize: Chu Yee Qing

2nd Prize: Is

3rd Prize: Tan Hua Hang

Geology Museum Open Day 2023



UNIVERSITI MALAYA FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

## GEOLOGY MUSEUM OPEN DAY 2023

FREE

THE FIRST DINOSAUR FOSILS IN MALAYSIA!

ANCIENT ELEPHANT TUSK FROM PERAK!

AND SO MANY MORE!

SCAN ME

# 2ND CAPACITY BUILDING CIAST @ PORT DICKSON

21 - 22 November 2023

Port Dickson, Negeri Sembilan

CIAST in collaboration with UM STEM Centre

A two-day capacity building workshop for TVET officers who develop the teaching materials and/or are responsible for Curriculum Quality Assurance as well as Head of Departments within the central government to share and to promote the understanding of how STEM can be integrated into the TVET teaching materials. This workshop focuses on the strategies and methods of integrating STEM skills into the existing Written Instruction Materials (WIM) and other reference materials by allowing the participants to understand and to identify the different STEM-related generic skills that are already existing in the curriculum.



# Pameran di SMKA Sultan Azlan Shah

30 November 2023

Sekolah Menengah Kebangsaan Agama Sultan Azlan Shah, Perak



# The National Technical Profession Day 2023 (HPTN)

30 November, 4-5 December 2023

Tan Sri Mahfoz Khalid Hall, Kuala Lumpur & Putrajaya  
Ministry of Works, The Malaysian Public Works Department and  
Pertubuhan Profesional JKR Malaysia (ProjKRM) in collaboration with  
Universiti Malaya STEM Centre

The National Technical Profession Day (HPTN) is an annual celebration organized by the Ministry of Works in collaboration with Universiti Malaya STEM Centre. The HPTN celebration is a platform to appreciate technical professionals' contributions towards advancing the country's infrastructure and modernization across various technical fields including engineering, astronomy, science, technology, construction, architecture, surveying, and more. It is also an initiative to encourage and nurture skilled individuals in the technical field, particularly among the younger generation.



*Congratulations*

# 2023 Samsung Solve for Tomorrow: START WITH CAN!

22 August - (Final) 16 December 2023

Grand Finale at The Cube, Faculty of Engineering, Universiti Malaya  
Samsung Malaysia Electronics in collaboration with Universiti Malaya

In 2023, Samsung Solve for Tomorrow competition, themed "Start with Can" aims to harness the power within each participant and instil confidence in their abilities to believe in themselves, build passion for problem-solving, and motivate them to think innovatively. By encouraging students to tap into their potential, the competition seeks to inspire them to make a lasting impact on society and drive positive change through the creation of impactful solutions for the challenges of tomorrow.

## Grand Prize Magnetic OleoHydroGuard Sponge

SMK KUBANG BEMBAN, KELANTAN



## 1st Runner-Up Creators of Tomorrow

SMK SULTAN ISMAIL, JOHOR



## 2nd Runner-Up Victernal

MRSB BAGAN DATUK, PERAK



## Consolation prize Bees Knees

SMJK KWANG HUA, SELANGOR



## Consolation prize H.I.P

SMK PUTERI WILAYAH, KUALA LUMPUR

# STEMTrek Camp

21 - 23 December 2023

Organized by Axis Experience Sdn. Bhd.



## MORE EVENTS

### SEMINAR PEMBUDAYAAN STEM BAGI MEMPERKASA MASYARAKAT MADANI

25 SEPTEMBER 2023  
DEWAN CHANSELOK, UNIVERSITI  
TEKNIKAL MALAYSIA MELAKA (UTEM)

**hwaamalaysia**  
*Peranan untuk Malaysia*

**ATURCARA PROGRAM**

**SEMINAR PEMBUDAYAAN STEM BAGI MEMPERKASA MASYARAKAT MADANI**

2.00pm-2.30pm Pendaftaran Peserta

2.30pm-2.45pm Perkongsian Pengalaman Industri  
Mr Hugh Oldfield - CEO Armor Australia / Protection Technologies (M) Sdn Bhd

 Mr Hugh Oldfield  
CEO Armor Australia

2.45pm-4.30pm FORUM  
"MEMBENDUNG GELOMBANG JENAAH - MEWUJUDKAN KOMUNITI LEBIH SELAMAT BERSAMA"  
"STEMING THE TIDE OF CRIME - CREATING SAFER COMMUNITIES TOGETHER"

 Panel 1  
Yang Dihormati/ Datuk Seri Ayob Khan Mydin Pitchay  
Timbalan Ketua Polis Negara

 Panel 2  
Ybhga Ir Dr Mas Sahidayana Mohdakar  
Pengarah Pusat STEK Universiti Malaya

 Moderator  
Prof. Madya Dr Shuibah Sakinah Syed Ahmad  
UiTM

4.30pm Majlis Penutup

# MORE EVENTS

**COMMUNICATING SUSTAINABILITY THROUGH SCIENCE SHOWS WORKSHOP**

2-3 NOVEMBER 2023  
 9.30 AM TO 5 PM (THURSDAY);  
 9.30 AM TO 12.30 PM (FRIDAY)

@ PUSAT SAINS NEGARA



**REGISTER HERE**



**Dr Graham Walker**  
AUSTRALIAN NATIONAL CENTRE FOR THE PUBLIC AWARENESS OF SCIENCE  
 AUSTRALIAN NATIONAL UNIVERSITY

**WORKSHOP:  
 COMMUNICATING  
 SUSTAINABILITY THROUGH  
 SCIENCE SHOWS**

2-3 NOVEMBER 2023  
**ORGANIZED BY: THE UNIVERSITI  
 MALAYA DEPARTMENT OF SCIENCE  
 AND TECHNOLOGY STUDIES**

**IMPROVE THE  
 GRADUATE SKILLS  
 AND EMPLOYABILITY**

25 NOVEMBER 2023  
**MICROSOFT TEAMS**

**MyREF**    
MyREF Career Development Talk

**Improve the  
 Graduate Skills  
 and Employability**

SCAN TO REGISTER:  
  
<https://forms.gle/q5s7rAdg2nabMzhu9>



**Dr. Iskandar Abdullah**  
 Director, Graduate Employability and Career  
 Centre, Student Affairs Department,  
 Universiti Malaysia.

**Saturday, 25 November 2023**  
 11 a.m - 1 p.m  
 Microsoft Teams

**FREE ADMISSION!**

- » e-Certificate will be given to ALL REGISTERED participants
- » Ment will be provided to UM students
- » Webinar will be delivered in Malay

**BICARA NARATIF**

**STEM  
 KIAN DIBENCI?**



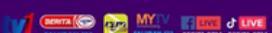
**MODERATOR**  
**SAYED MUNAWAR**  
 SAYED MUSTAR

**IR. DR. MAS SAHIDAYANA MOHKHTAR**  
 PENGARAH  
 PUSAT STEM UNIVERSITI MALAYA

**PROF. EMERITUS**  
**DATO' DR. NORAINI IDRIS**  
 PRESIDEN  
 PERSATUAN STEM KEBANGSAAN

**PROFESOR TS.**  
**DR. MOHAMAD SATTAR RASOL**  
 Pengerusi  
 PUSAT KAJIAN PEMBUAYAAN STEM  
 UNIVERSITI KEBANGSAAN MALAYSIA

**SELASA, 26 DISEMBER 2023**  
 9:00 MALAM



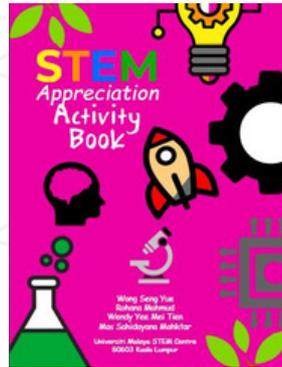
**BICARA NARATIF:  
 STEM KIAN DIBENCI?**

26 DISEMBER 2023  
 9 MALAM

# Publications



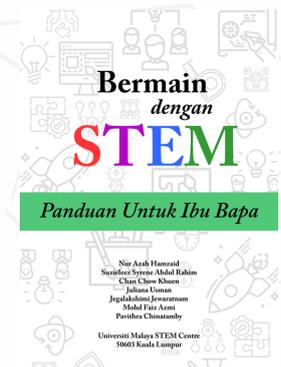
STEM ACTIVITY BOOK & Kit



STEM APPRECIATION ACTIVITY BOOK



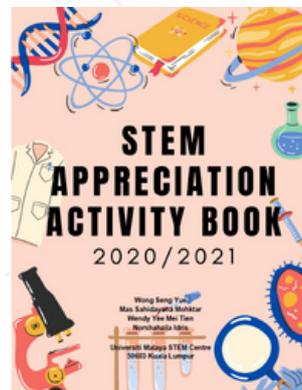
BEST PRACTICES IN STEM MENTOR MENTEE



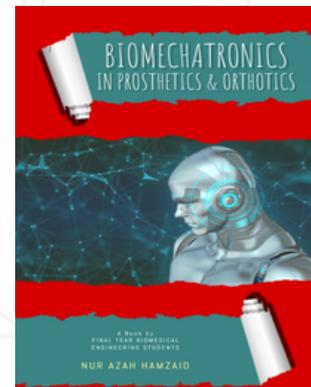
BERMAIN DENGAN STEM



Belajar Rukun Negara melalui STEM



STEM APPRECIATION ACTIVITY BOOK 2020/2021



Biomechanics in prosthetics & Orthotics

## Office

### Contact us:

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 Nursyahirah Ahamd Shukri (Project Officer)  
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 Tel: +603- 7967 3490

More info, kindly contact us at 03-7967 3490 or stem@um.edu.my

### MICROSOFT- UM STEM Learning Space



In affiliation:



Social Advancement  
 & Happiness  
 Research Cluster  
 Universiti Malaya



[stem.um.edu.my](http://stem.um.edu.my)



[stem@um.edu.my](mailto:stem@um.edu.my)



UM STEM Centre



umstem\_centre



UM STEM Centre