



UM  
STEM

# UM STEM BULLETIN

## KARNIVAL STEM KOMUNITI MELAYU RAYA, SEGAMAT, JOHOR

16 & 17 August 2025  
Kampung Melayu Raya, Segamat, Johor

*Karnival STEM Komuniti Melayu Raya Segamat* was part of the Geran Perdana UMCARES initiative aimed at promoting STEM education through various programs and activities for students and local communities. This two-day event involved collaboration among the Kampung Melayu Raya community, teachers from SK Melayu Raya, Universiti Malaya, and 20 exchange students from Universitas Bina Mandiri Gorontalo, Indonesia.



**KARNIVAL STEM**  
di Kampung Melayu Raya, Segamat, Johor  
Sabtu, 16 Ogos 2025  
10.00 Pagi - 1.00 Petang  
Sekolah, Kobang, sahan Kampung Melayu Raya

**TADIRIA / PRA (KANTIN)**  
ACTION OF YEAST & ELECTRICAL PUTTY  
Sesi 1: 10.00 pagi - 11.30 pagi  
Sesi 2: 11.30 pagi - 1.00 petang

**SK TAHAP 1 (RUANG GALERI KOKURIKULUM)**  
ELECTRIC CIRCUITS & POPSICLE TOWER  
Sesi 1: 10.00 pagi - 11.30 pagi  
Sesi 2: 11.30 pagi - 1.00 petang

**SK TAHAP 2**  
EXPLORE DRONE (DEWAN SEKOLAH)  
FLOW LOGIC ALGORITHM (MAKAMAL KOMPUTER (FLOW LOGIC))  
10.00 pagi - 1.00 petang

**IBU BAPA & KOMUNITI (BILIK PERSEDIAAN)**  
CERAMAH UBAT-UBATAN  
KONSULTANSI KESIHATAN  
Sesi 1: 10.00 pagi - 11.00 pagi  
Sesi 2: 11.00 pagi - 1.00 petang

**DENGAN KERJASAMA:** UM STEM, UNIVERSITI MALAYA, PUSAT JILIHAN BANYAKRAGAT UNIVERSITI MALAYA (SARAWAK), UNIVERSITI MALAYA GEMBUK, JPKK POGOH 4

**PENDAFTARAN DIBUKA! SCAN DISINI!**



**SUKAN STEM RAKYAT KAMPUNG MELAYU RAYA**  
AHAD, 17 OGOS 2025  
9.00 PAGI - 11.00 PAGI  
PADANG SK MELAYU RAYA

**AKTIVITI**

- Anyam ketupat
- Batu seremban
- Tarik upih
- Batik Challenge
- Roket air
- Motosikal lambat

**SENAMROBIK**

**PENDAFTARAN DIBUKA! SCAN DISINI!**

**DENGAN KERJASAMA:** UM STEM, UNIVERSITI MALAYA, PUSAT JILIHAN BANYAKRAGAT UNIVERSITI MALAYA (SARAWAK), UNIVERSITI MALAYA GEMBUK, JPKK POGOH 4

# KARNIVAL STEM KOMUNITI MELAYU RAYA, SEGAMAT

## Highlights

### STEM Carnival

- STEM Activities for kids
- Health Checkup & Consultation
- Cultural Night

### STEM Folk Sports Carnival

- Water rocket
- Batu Seremban
- 'Ketupat' weaving

On the first day of our program, we successfully engaged pre-school and primary school students from SK Melayu Raya in a series of STEM activities organized for them in the morning. The activities offered included:

**Pre-school:** Action of Yeast & Conducting Putty

**Lower Primary:** Electric Circuit & Popsicle Tower

**Upper Primary:** Drone Exploration & FlowLogic Programming

In addition to these activities, we provided a talk on medical health and offered a health check-up service for parents and teachers. In the evening, representatives from Kampung Melayu Raya and Universiti Malaya collaborated to showcase cultural performances, featuring a musical drama, singing, and *kompang*.

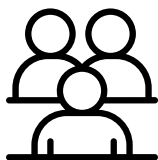
## STUDENTS



130+

## PARENTS

30+



## VILLAGERS

80+



# KARNIVAL STEM KOMUNITI MELAYU RAYA, SEGAMAT

On the second day, we proudly organized a STEM Folks Sports Carnival, bringing together all the communities of Kampung Melayu Raya. With a spirit of unity and celebration, we hosted various folk games competitions, including 'Slow Motorcycle,' 'Ketupat Weaving,' water rockets, 'Batu Seremban,' and more.



# KARNIVAL STEM KOMUNITI MELAYU RAYA, SEGAMAT, JOHOR



# MAYBANK STEM SMK COCHRANE

5, 19, 26 July 2025  
SMK Cochrane



# PROGRAM STI 100<sup>3</sup> SK (P) JALAN BATU

7 July 2023  
SK (P) Jalan Batu, KL

A representative from the UM STEM Centre joined the school community for a brief sharing session on the importance of STEM education. In just 15 minutes, students were introduced to how STEM shapes innovation, careers, and the future of our society.



# SK LA SALLE, SENTUL, KL

23 July 2025



# MAYBANK STEM LITTLE HEROES @ SK SRI SUBANG JAYA

23 August & 25 October 2025



# PROGRAM HIGH IMPACT "STEMVIBE"

24 July 2025

SMK Seri Duyong, Melaka

Organised by the Faculty of Health Sciences,  
Melaka International College of Science and Technology (MiCoST)

The High Impact "STEMVIBE" program, organized by the Faculty of Health Sciences at Melaka International College of Science and Technology (MiCoST), provided students with valuable opportunities to engage more deeply with STEM.

Associate Professor Ir. Dr. Mas Sahidayana Mohktar, Director of the UM STEM Center, also attended as a guest speaker and shared insights on inspiration and future opportunities in STEM.

Thank you for the excellent invitation and organization. We hope STEM remains the preferred field for our students.



# THE 10TH INTERNATIONAL STEM EDUCATION CONFERENCE 2025 (ISTEM-ED 2025)

30 July – 1 August 2025

Amari Pattaya Hotel, Chonburi, Thailand

The iSTEM-Ed 2025 conference took place from 30 July to 1 August 2025 at the Amari Pattaya Hotel in Chonburi, Thailand. The theme, 'Education for All,' focused on democratizing knowledge, bridging global divides, and empowering learners through innovation. As AI, robotics, and digital technologies reshape society, STEM education remains essential for inclusive progress. During the conference, Associate Professor Ir. Dr. Mas Sahidayana delivered a keynote titled "Integrating STEM-related generic skills to foster innovation: Connecting creativity and logic in teaching, learning, and assessment"





# ENVIRONMENTAL STORIES COMPETITION AWARD CEREMONY AND FORUM

2 August 2025

IAS, Universiti Malaya

Macaranga, UM, Taylor's University, and UM STEM

Macaranga, together with Universiti Malaya, Taylor's University, and the UM STEM Centre hosted an environmental storytelling forum that brought together academics, students, journalists, and advocates to explore how narratives shape sustainable futures. Speakers discussed Malaysia's environmental issues, such as deforestation, impact assessments, and the need for transparency and public participation. Participants learned that data-driven and experience-based storytelling influences public discourse and deepens community ties to local ecosystems.



**Environmental Stories**  
Competition Awards Ceremony and Forum

Join us in celebrating the six finalists of the **Environmental Stories Competition** and catch the presentation of all their stories!

2 August 2025 9.30 a.m. - 12.15 p.m.  
Auditorium, Level 1, Block B,  
Institute of Advanced Studies,  
Universiti Malaya

Come early for a light breakfast and stay for lunch and a chance to network!

Register here:

Forum: How can we have more environmental journalists?

Moderator: Wong Siew Yin, Co-founder and Editor, Macaranga Media

Panelists:

- Aidila Razak, Co-Founder News Initiative, The Heart
- Jan Yee, Co-Founder & Executive Director, The Heart
- Dr Amira Firdaus, Associate Professor & Head, Department of Media & Communication Studies, Universiti Malaya
- Philip Gan Chae Kien, Programme Director, Bachelor of Mass Communication (Honour), Taylor's University

Organiser: Macaranga | Co-Organiser: UM STEM | Sponsor: Youth | Grant administrator: OSE



# STUDENT EXCHANGE PROGRAM UNIVERSITAS BINA MANDIRI, GORONTALO

4 – 28 August 2025  
Universiti Malaya

The Student Exchange Program between Universitas Bina Mandiri (UBM) and Universiti Malaya (UM) facilitated academic partnerships, research collaboration, and cross-cultural understanding. Participants engaged with UM faculty, acquired practical laboratory experience, and contributed to STEM outreach initiatives in Segamat, Johor, applying their expertise to support local communities. Additionally, students participated in STEM-related activities at UM, including student visits and workshops. The program concluded with hybrid presentations of research findings to supervisors from both institutions, demonstrating collaborative efforts and academic development. Overall, the program promoted academic, research, and cultural exchange, underscoring the strong partnership and shared commitment of UBM and UM to cultivating globally competent and responsible graduates.



# SESI ONBOARDING MYREF HSP BATCH 25/26 - MAINS

20 November 2025  
Majlis Agama Islam Negeri Sembilan



# GRADUASI - MYREF HSP 24/25

21 August 2025  
Holiday Inn Hotel, Johor  
MyRef, MAIK, Affin, and Etiqa, in collaboration with UM STEM Centre



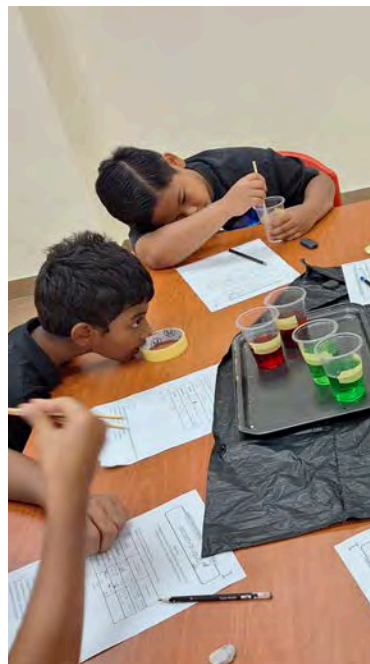
# STEM CONNECTHER SEMINAR

25 August 2025  
IAS, Universiti Malaya  
The Asia Foundation (TAF)



# UM STEM DISCOVERY

19 September 2025  
PASUM  
UM STEM & PASUM



# LAWATAN SM SAINS KUBANG PASU

29 August 2025  
High Impact Research (HIR) Building



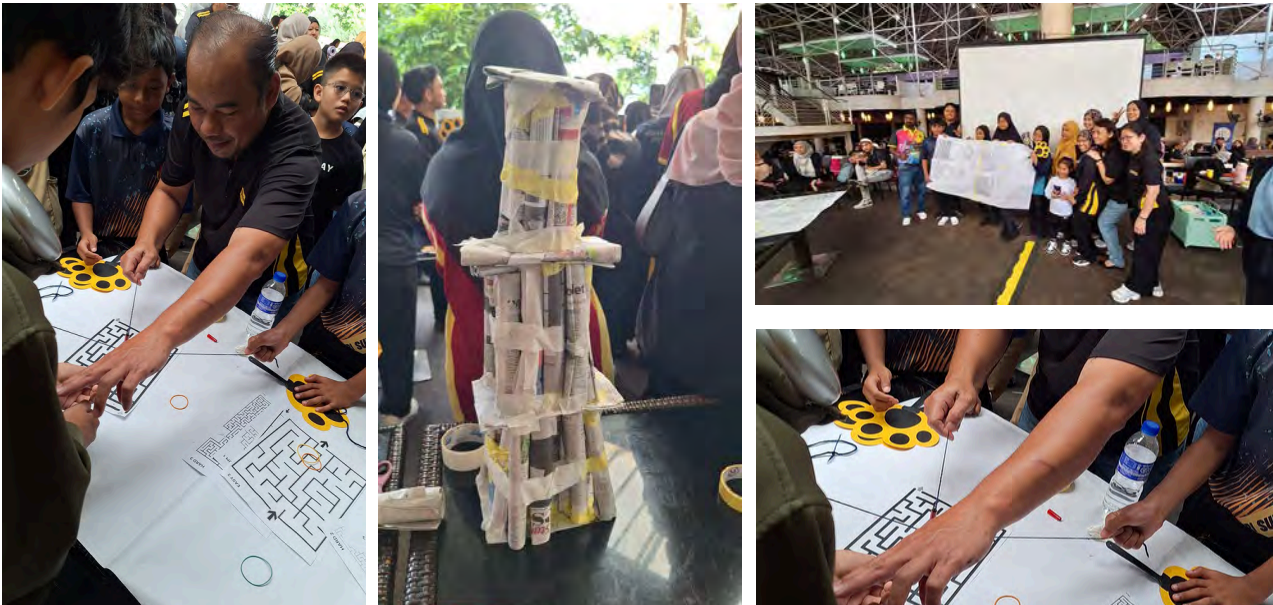
# LAWATAN SMK KG. PASIR PUTEH

2 October 2025  
Faculty of Dentistry and Tan Sri Dr. Lim Wee Chai Medical Museum  
UM STEM & PASUM



# MAYBANK STEM SK SRI SUBANG JAYA

Menara Maybank KL, Maybank Berhad  
27 September 2025



## DESIGN THINKING WORKSHOP

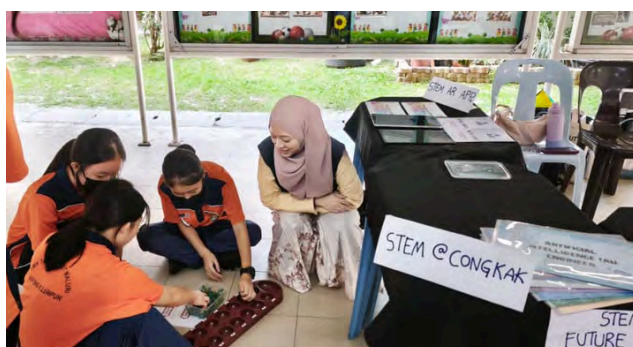
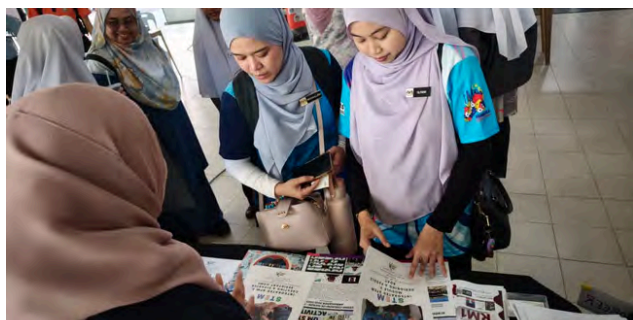
Institute of Advanced Studies, Universiti Malaya  
11 October 2025  
Samsung Malaysia Electronics (SME) Sdn. Bhd

The workshop provided intensive mentoring, with academic and industry experts offering hands-on guidance to help participants refine their ideas and increase their impact on local communities. Projects ranged from a sustainable tree health monitoring tool to an AI-powered posture monitoring app and sustainable shoes that generate electricity from daily steps, demonstrating the creativity and social awareness of Malaysia's future changemakers.



# PAMERAN STEM SMK TAMAN MALURI

12 December 2025  
SMK Taman Maluri



# LAWATAN SMK TIARA PERMAI SEMPENA STI IOO<sup>3</sup>

18 December 2025  
Universiti Malaya



# SAMSUNG SOLVE FOR TOMORROW 2025 - GRAND FINALE

6 December 2025

M World Hotel

Samsung Malaysia Electronics (SME) Sdn. Bhd.

SSFT 2025

36

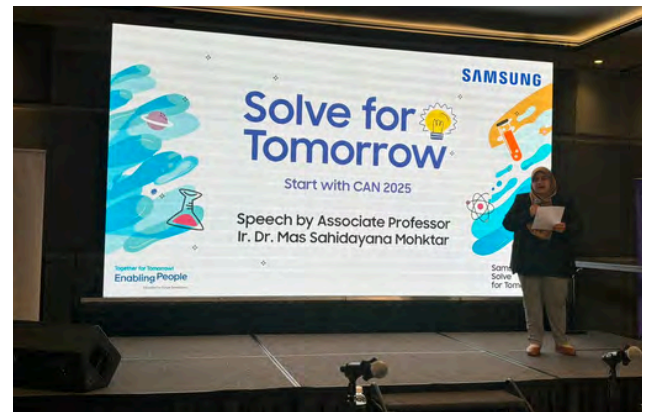
SCHOOLS

SSFT 2025

156

STUDENTS

Congratulations to all teams who stepped up and shared bold ideas to spark positive change in their communities through STEM. With inventive solutions and boundless creativity, students aged 13-15 have truly shown they are tomorrow's changemakers. Heartfelt thanks to all participants, mentors, teachers, schools as well as parents for bringing this program to life. Together, let's keep shaping a brighter future!





# MORE EVENTS



Congkak @ Tadika Raihan  
Tadika Raihan  
21 July 2025



Enjoy AI Robotics Competition  
Dewan Semarak, APM  
9 August 2025

WonderAI, EduWel in collaboration  
with UM STEM Centre

## STEM PROGRAMME

7-12 YEARS  
13-15 YEARS  
16-17 YEARS

Up For Class NOW!

UNIVERSITI MALAYA

### STEM Programme

Fun Activities such as DIY Lung, Math Maze, Robotics Straw Hand, Balloon Car, Cup Shooter and more!

7 - 12 years

SCAN ME

WHY US ?

- Experience Universiti Malaysia (UM) Environment at Young Age
- Special Coaching on Math & Science
- Venue at UM STEM Centre
- Certificate Awarded Session

2024 Intake

Up For Class NOW!

UNIVERSITI MALAYA

### STEM Programme

Fun Activities such as Popsicle Tower, Rubber Band Car, DIY Torchlight, Geometrical Shapes, Corn Flour Wonders and more!

13 - 15 years

SCAN ME

WHY US ?

- Experience Universiti Malaysia (UM) Environment at Young Age
- Special Coaching on Math, Science, Physics, Chemistry
- Venue at UM STEM Centre
- Certificate Awarded Session

2024 Intake

Up For Class NOW!

UNIVERSITI MALAYA

### STEM Programme

Fun Activities such as Lemon Batteries, Brain Boosting, Cup Stack Challenge, Magic of Milk.

16 - 17 years

SCAN ME

WHY US ?

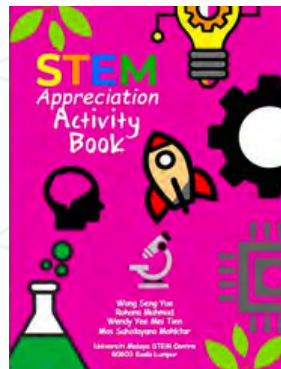
- Experience Universiti Malaysia (UM) Environment at Young Age
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2024 Intake

# Publications



STEM ACTIVITY BOOK & Kit



STEM APPRECIATION ACTIVITY BOOK



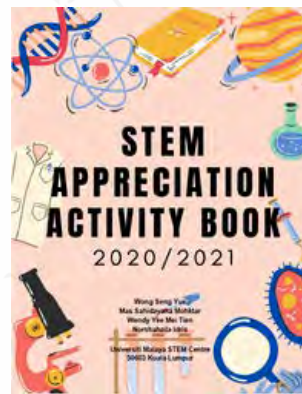
BEST PRACTICES IN STEM MENTOR MENTEE



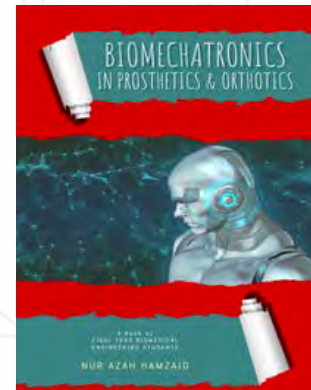
BERMAIN DENGAN STEM



Belajar Rukun Negara melalui STEM



STEM APPRECIATION ACTIVITY BOOK 2020/2021



Biomechatronics in prosthetics & Orthotics

## Office

### MICROSOFT- UM STEM Learning Space

#### Contact us:

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