

**UM
STEM**
SCIENCE. TECHNOLOGY. ENGINEERING. MATHEMATICS

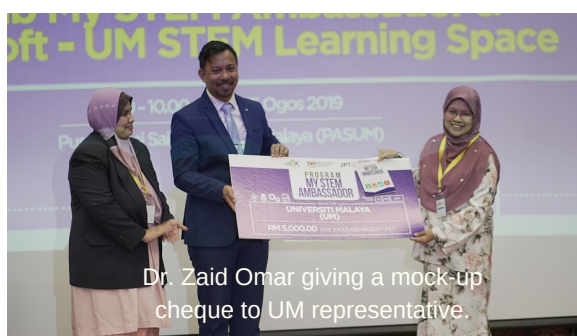
UM STEM ACTIVITIES

Launching of MY STEM AMBASSADOR PROGRAM & MICROSOFT - UM STEM LEARNING SPACE

15th August 2019

Auditorium, Centre of Foundation Studies in Science (PASUM)

Organised by: UM STEM Centre in collaboration with Holistic Student Division, Higher Education Department, National STEM Movement & PASUM



Dr. Zaid Omar giving a mock-up cheque to UM representative.

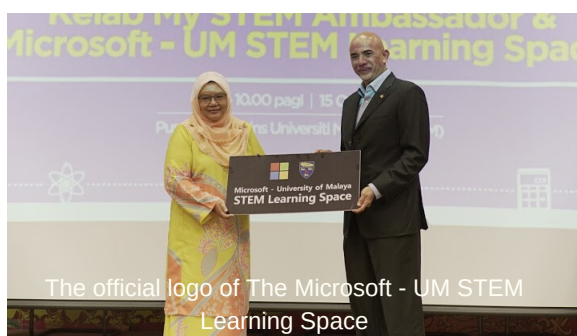
A launching ceremony of Malaysian (My) STEM Ambassador was held on the 15 August 2019 at the Auditorium, PASUM. The Director of Holistic Student Division, Ministry of Education (MoE), YBrs. Dr. Zaid Omar was invited to officiate the ceremony. MoE has initiated My STEM Ambassador to enhance STEM literacy among university student and school. 10 universities have been involved in the 1st phase program namely UM, UTM, UUM, UMS, UPSI, USIM, UMT, UTeM, UniMAP, and UnisZA.

In the same event, the Microsoft - UM STEM Learning Space was officiated by Mr. K. Raman, Managing Director of Microsoft (Malaysia) Sdn. Bhd. together with Professor Dr. Noorsaadah Abd. Rahman, Deputy Vice-Chancellor (R&I) representing the University of Malaya.

STEM Learning Space is designed to provide innovative and interactive learning in STEM activities. This space also an initiative to encourage the involvement of educators, researchers, students, industries and local communities to inspire students in STEM education.

Also present at the event was YB Mr. Ahmad Fahmi, a Member of Parliament for Lembah Pantai. He strongly supports the STEM initiative and encourage the involvement of Lembah Pantai community in STEM activities at the University of Malaya.

We would like to thank our generous sponsors; 1) Microsoft (Malaysia) Sdn. Bhd. and 2) WestStar Maxus Sdn.Bhd. for sponsoring Microsoft - UM STEM Learning Space. It is the result of UM-Industries cooperation in supporting STEM education at Higher Education Institutions level.



The official logo of The Microsoft - UM STEM Learning Space

2nd National STEM Seminar 2019

14th - 15th August 2019

Auditorium, PASUM

Organised by: PASUM

Joint organiser: UM STEM Centre in collaboration with National STEM Movement



Young Explorer Science Camp : Nature & Science

14th August 2019

PASUM

STEM Coordinator: Dr. Suriani Ibrahim

Dept. of Mechanical Engineering

Faculty of Engineering

Organised by: Yayasan TM in collaboration
with UM STEM Centre



STEM Grooming Camp @ University of Malaya 14th - 16th August 2019 University of Malaya

Organiser: UM STEM Centre & Weststar Maxus Sdn. Bhd.

STEM Coordinators:

- 1) Dr. Zarina Aspanut, Dept. of Physics, Faculty of Science
- 2) A.P. Dr. Sarinder Kaur A/P Kashmir Singh, Institute of Biological Sciences, Faculty of Science
- 3) Dr. Mahanom Jalil, Biology Division, PASUM
- 4) Dr. Mohamad Sofian Abu Talip, Dept. of Electrical Engineering, Faculty of Engineering

80
Students

Putrajaya: 27 Students
Selangor : 37 Students
KL : 13 Students
Others : 3 Students

4
STEM
Ambassadors

Muhammad Zahin Redzuan
Rajwa Rahman
Nurul Syafiqahizzati
Nur Dini



1) LearnX Physics



2) Bioinformatics



3) Plant Biotechnology
Incubator Unit (PBIU)



4) CodeCamp with BBC micro:bit



UM STEM Ambassador corner!

STEM
Tuesday
(1 pm - 2 pm)

Malaya Sudoku Competition 1.0

24th September 2019

Time : 1 pm - 2 pm

Venue: Microsoft-UM STEM Learning Space (UM STEM Centre)



Prize given to the winner, Wendy He Wen
by Dato' Noraini Idris (NSM)

Malaya Sudoku Competition 2.0

1st October 2019

Time : 1 pm - 2 pm

Venue: Microsoft-UM STEM Learning Space (UM STEM Centre)

UM STEM Ambassador: Nur Nadhirah, Moo Han Li & Lim Jit Keng



Prize given to the winner. 1) Lee Chooi Mun (champion)
and 2) Ng Chun Howe (1st runner up) by Dr. Mas



All participants for Malaya Sudoku Competition 2.0

Kahoot! Malaya Science Trivial Competition

8th October 2019

Time : 1 pm - 2 pm

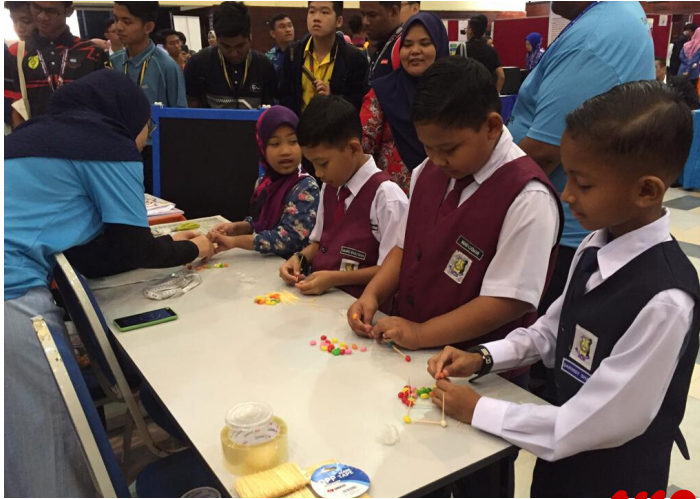
Venue: Microsoft-UM STEM Learning Space (UM STEM Centre)



Prize given to the winner. 1) Nicholas (champion)
& 2) Nik Nur Solehah Fitri (1st runner up) by Nadhirah



All participants for Kahoot! Malaya Science Trivial Competition



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Program National STEM Innovation Carnival 2019 (NSInC 2019)

29th August 2019

Politeknik Ungku Omar, Perak

STEM Coordinator: Ir. Dr. Mas Sahidayana

Dept. of Biomedical Engineering

Faculty of Engineering

Exhibition: UM STEM Centre &

Let's Go To Mummie's Lab



MY STEM Ambassador Meeting

28th August 2019

Universiti Pendidikan Sultan Idris
(UPSI)

STEM Coordinator: Ir. Dr. Mas Sahidayana

Dept. of Biomedical Engineering

Faculty of Engineering



Scientist-Teacher-Student Partnership Program:

STEM Cell Research

5th August 2019

SMK Bandar Sri Damansara (1)

STEM Coordinator: Dr. Hidayah Mohd Fadzil
Dept. of Mathematics & Science Education
Faculty of Education



Karnival Pendidikan Merdeka @ Komuniti Lembah Pantai Bersama YB Fahmi Fadzil

3rd August 2019

Sport Complex, Pantai Eco Park

STEM Coordinator: Ir. Dr. Mas Sahidayana

Dept. of Biomedical Engineering

Faculty of Engineering

Exhibition: UM STEM Centre, Let's Go To

Mummie's Lab and Bioinformatics

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International Conference on Conservation Biology 2019 24th July 2019 Kuala Lumpur Convention Centre (KLCC)

Attended by Dr. Hidayah Mohd Fadzil &
Prof. Dr. Rohaida Mohd Saat
Dept. of Mathematics & Science Education
Faculty of Education
Promoting STEM culture in schools: teaching,
engaging, and inspiring the next generation
of conservation scientists.

STEM Activities with Wonder of Science Team from the University of Queensland 24th July 2019 Kuala Lumpur Convention Centre (KLCC)

STEM Coordinator: Dr. Hidayah Mohd Fadzil
Dept. of Mathematics & Science Education
Faculty of Education



STEM Education Roundtable: Issues, Challenges & Recommendations

18th July 2019

Cube@Balai Ilmu, Academy of Islamic Studies

Organised by: UM STEM Centre in collaboration
National STEM Movement & National STEM Association
Venue provided by Academy of Islamic Studies



Attachment @ UM Program

1st – 12th July 2019

Microsoft - UM STEM Learning Space

Attach @ UM program is an initiative program by the Graduate Employability & Entrepreneurship Centre, Student Affairs & Alumni Division in helping first year students to experience the working culture and environment.

ADeC has received 10 students and one of them attached with UM STEM Centre. The student was introduced to the UM STEM core business such as conducting STEM program/activities and other related administrative works.

We would like to express our sincere thanks to ADeC, Aisyah and all attach@UM students for helping us during the attachment program. All the best!

**Kingsley International School
@ Let's Go to Mummie's Lab
25th June 2019**

Faculty of Engineering, UM

STEM Coordinator: Dr. Wan Safwani

Dept. of Biomedical Engineering

Faculty of Engineering

Organised by: Kingsley Int. School, Faculty of Engineering & UM STEM Centre



**Workshop III: The Public Engagement:
Robotics Education for STEM in Malaysia
Eureka Robotics Lab, Cardiff Metropolitan University, Wales
21st June 2019**

Faculty of Computer Science and Information Technology, UM

STEM Coordinator: Dr Zati Hakim Azizul Hasan

Dept. of Artificial Intelligence, Faculty of Computer Science and Information Technology, UM

Organised by: Faculty of Computer Science and Information Technology, UM



Let's Go to Mummies Lab
SK Convent Kajang
The Science of Play (IIRG Grant)
14th & 20th June 2019
SK Convent Kajang

STEM Coordinator: Dr. Nur Azah Hamzaid
Dept. of Biomedical Engineering
Faculty of Engineering



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Program: Mentor Mentee MESTECC -
Let's Go to Mummie's Lab SK La Salle
(session: 3 & 4)

13th and 19th June 2019
SK La Salle

STEM Coordinator: Dr. Wan Safwani
Dept. of Biomedical Engineering
Faculty of Engineering
Organised by: UM STEM Centre
in collaboration with MESTECC.



ICTSIG Junior Digital Class 2019 S.T.E.M Fun Learning: Introduction to Physical Computing

12th & 19th June 2019

SK Alam Shah 1 and SK La Salle

Organised by: Information and Communications Technology Special Interest Group,
IEM in collaboration with UM STEM Centre

Speaker: Ir. Amir Hussein Bin Jaafar

Equipment Sponsored: Micro Concept Tech



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Program: Mentor Mentee MESTECC

SK Alam Shah 1 (session: 4 & 5)

5th & 12th May 2019

PASUM

STEM Coordinator: Dr. Faridah Sonsudin

Chemistry Division, PASUM

Organised by: UM STEM Centre in collaboration with MESTECC.





STEM APPRECIATION DAY

11th May 2019

The Sequoia Academy,
An International School

STEM Coordinator: Dr. Wong Seng Yue
CITra

Organised by: GIX1004 STEM APPRECIATION



Hayya 'Alal Falah, Hal Ehwal Pelajar (HEP)

3rd March - 24th May 2019

STEM Coordinator: Nur Nabilah Zamzuri
Hal Ehwal Pelajar (HEP)

Venue: SMK Seksyen 10 Kota Damansara, SMK Putrajaya Presint 11(1), SMK Perempuan Air Panas, SMK Ayer Hangat, Langkawi, SK Ulu Melaka, Langkawi, SMK Bangsar, and SMK Bandar Baru Seri Petaling.

Organised by: Sekretariat Sukarelawan
Universiti Malaya (SEKRUM)



Program Sains Magika @ Kg Lindungan

4th May 2019

PPAS@PJKITA Community Library

Organised by: Persatuan STEAM Malaysia in collaboration with UM STEM Centre



STEM AMBASSADORS IN ACTION!



STEM @ PPR Pelangi

4th May 2019

PPR Pelangi

STEM Coordinator: Dr. Kartini Abdul Jabar

Dept. of Medical Microbiology

Faculty of Medicine

Subject: UPSR, PT3 & SPM

29th April 2019

SMK La Salle, Petaling Jaya

9th July 2019

SK Subang Bestari, Shah Alam

30th August 2019

Tabika KEMAS, Desa Temuan, Bukit Lanjan

12th October 2019

MAGIC, Cyberjaya

6th November 2019

Madrasah Muin, Klang

PROJEK KOMUNITI JABATAN KEJURUTERAAN PERISIAN 2019

STEM Coordinator: Dr. Raja Jamilah Raja Yusof,
Dr. Nazean Jomhari & Dr. Hazrina Sofian.
Organised by: Software Engineering Department
Faculty of Computer Science And Information
Technology, Universiti Malaya

In collaboration with:
IEEE UM STUDENT BRANCH
IEEE WIE MALAYSIA
IEEE MALAYSIA SECTION
UM STEM CENTRE

1) SMK La Salle, Petaling Jaya



2) SK Subang Bestari, Shah Alam



3) Tabika KEMAS, Desa Temuan



SE COMMUNITY SERVICE PROGRAM

Software Engineering Department, FSKTM UM

The Software Engineering (SE) community service programs were conducted to introduce and strengthen specific SE skills which include Computational Thinking, Programming and Design Thinking to students and teachers targeted. At the same time it is targeted to increase knowledge and interest in the field of Software Engineering.

The community service program were divided into two, the event for school children and the event for teachers (Teacher in Service Programme - TISP)

4) MAGIC, Cyberjaya



2019 events!

4th May 2019	Touch of The Future: Sekolah Kebangsaan Bukit Lanjan (Asli) Bandar Damansara Perdana Selangor. STEM Coordinator: Dr. Suraya Hamid, Dept. of Information Systems, Faculty of Computer Science and Information Technology. Organised by: GIG1005 class group 46, Department of Information Systems, FCSIT, UM.
17th - 22nd May 2019	University of Malaya Competition for Young Mathematicians (UMCYM). STEM Coordinator: Dr. Wan Ainun Mior Othman, Faculty of Science.
30th May 2019	Einstein vs Bohr: Quantum Debate in Wayang Kulit. Organised by: Department of Physics, Faculty of Science
25th June 2019	Low Cost Educational Robot & IoT (Internet of Things) Trainings: SMK Dato' Onn Jalan San Peng, KL. STEM Coordinator: Marsha Azizah Ahmad Shamsuddin. Venue: GoReMas Ent., Innovation Incubator UM. Organised by: TECHSnDIY
22nd - 25th June 2019	Quantum & Nonlinear Optics. STEM Coordinator: Prof. Dr. Raymond Ooi, Department of Physics, Faculty of Science. Venue: Auditorium, HIR. Organised by: Quantum & Laser Science Centre.
8th August 2019	DIY KTP. STEM Coordinator: Noor Suzaini Mohamed Zaid, Dept. of Building Surveying, Faculty of Built Environment. Venue: SM Stiabudi. Organised by: UMCares, Mr. DIY and Knowledge Transfer Programme.
18 Sept - 2 Oct 2019	The Engineering Festival. Organised by: Faculty of Engineering, University of Malaya
10 - 13 Oct 2019	Selangor R&D and Innovation Expo. Venue: MITEC, Kuala Lumpur. STEM Ambassador: Let's Go to Mummie's Lab team

JOIN US!

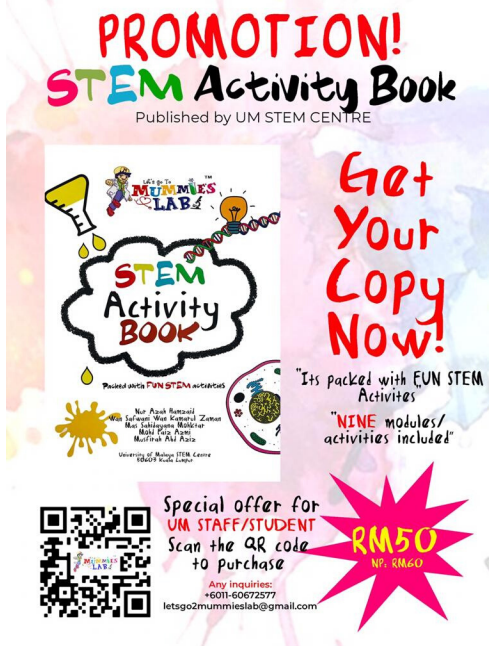
More events!

Oct 2019	BASF KIDS' Lab. Venue: National Science Centre STEM Coordinator: G. Y. Annie Tan, Faculty of Science. Organiser: BASF, NSC & UM.
19 - 20 Oct 2019 (1)	Dewan Bahasa dan Pustaka (DBP) - Universiti Malaya (UM)
23 - 24 Nov 2019 (2)	STEM Coordinator: Dr. Hidayah Mohd Fadzil, Faculty of Education Organiser: DBP in collaboration UM STEM Centre.
1 - 3 Nov 2019	Kuala Lumpur Engineering Science Fair (KLESF) 2019 @ MIECC.
10 Nov 2019	BMEkeathon 2019. Dept. of Biomedical Engineering, Faculty of Engineering, UM.
14 Nov 2019	Malaysia-China Technical & Vocational Education Forum. Pullman Hotel KL Bangsar Organiser: Kong Zi Institute UM & Confucius Institute HQ China. Co-organiser: ZTE Educational Management Company & UM STEM Centre.
23 - 24 Nov 2019	International Youth Robot Competition (Malaysia) 2019. Dewan Tunku Canselor, UM.
29 - 30 Nov 2019	Minggu Sains Lembah Pantai. KL Gateway Mall. Organiser: Pejabat MP Lembah Pantai.
29 - 30 Nov 2019	Physics Open Day. Discover How Physics & Materials Science Transform Your Life. Department of Physics, UM.
30 Nov 2019	UM Chemistry Carnival. Department of Chemistry, UM.
3 - 4 Dec 2019	Hari Profesion Teknikal Negara. TM Convention Centre.
7 Dec 2019	Southeast Asia Global Innovation Challenge (SEA-GIC 2019). Department of Chemistry, UM.
12 Dec 2019	Program Pertandingan Mini Teater STEM Negeri Selangor 2019. Perbadanan Perpustakaan Awam Selangor, Shah Alam.
Every Tuesday (1 pm - 2 pm)	UM STEM Ambassador Club activities @ Microsoft - UM STEM Learning Space. Please visit UM STEM Centre FB & IG for more info.

PUBLICATIONS

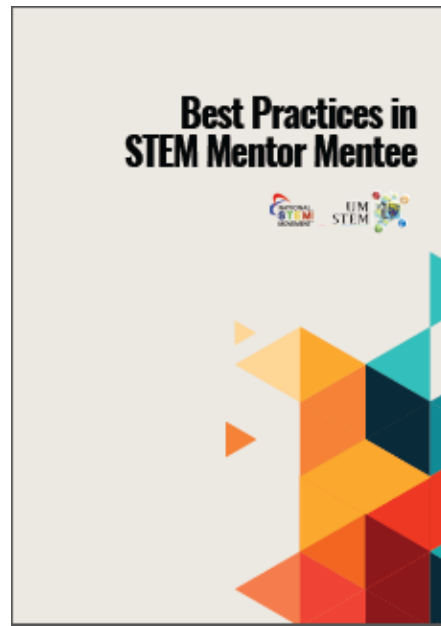
STEM ACTIVITY BOOK

Normal price: RM 60
UM Staff/student: RM50
Excluding delivery/shipping charges
Special offer: Purchase 500 or more STEM Activity books, get FREE half day STEM activities for 100 students.



BEST PRACTICES IN STEM MENTOR MENTEE

Normal price: RM 60
UM Staff/student: RM50
Excluding delivery/shipping charges
Compilation of research paper presented at The 1st National STEM Seminar 2018



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MICROSOFT- UM STEM Learning Space



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