



**UM
STEM**

SCIENCE. TECHNOLOGY. ENGINEERING. MATHEMATICS

UM STEM ACTIVITIES

10 UNIVERSITIES

22

SCHOOLS

MENTOR

400

MY STEM AMBASSADOR

MENTEE

1000

SCHOOL STUDENTS

UM STEM Mentor Mentee February - March 2020

Organised by: UM STEM Centre in
collaboration with National STEM
Movement and 10 IPTA/IPTS
University Coordinator: UM STEM Centre

National level funded by MOSTI
University level funded by UMCares
(Geran Kelab Sahabat Universiti Malaysia)

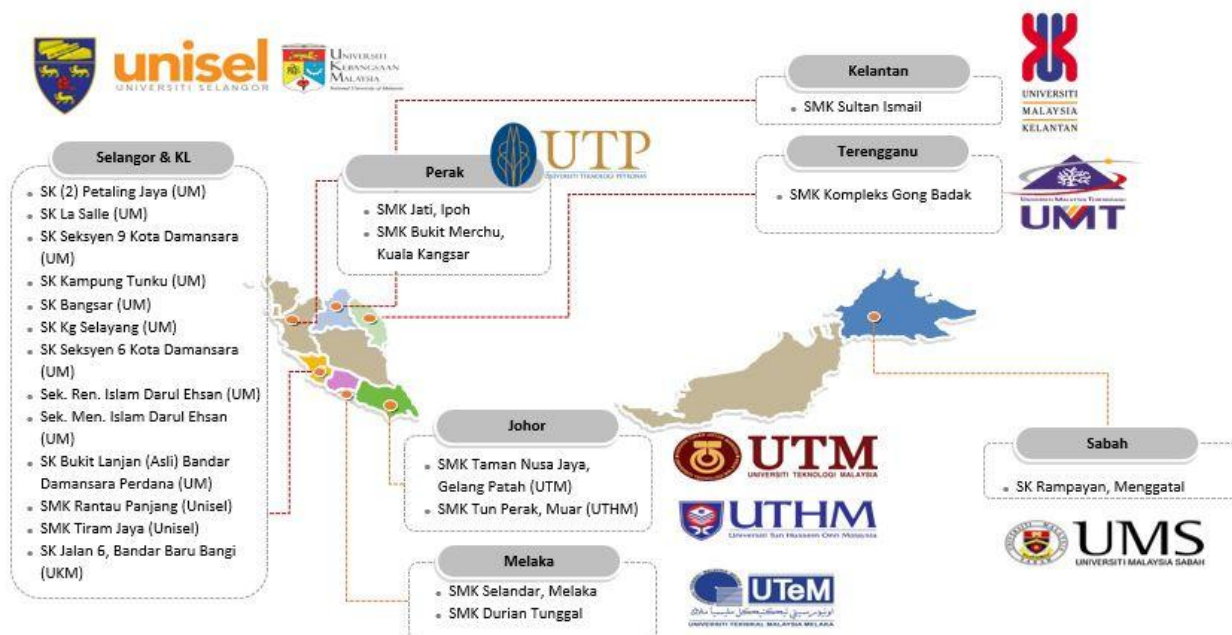
Objective

The aim of this mentoring
program:

1. To improve STEM perception;
2. To develop mentorship among the students in public schools in Malaysia; and
3. To observe the effect of mentoring on both mentors (university students) and mentees (school students).

UM Coordinators:

1. Ir. Dr. Mas Sahidayana Mohhtar, Department of Biomedical Engineering. Faculty of Engineering
2. Dr. Suraya Hamid, Department of Information System. Faculty of Computer Science & Information Technology
3. Dr. Azah Anir Norman, Department of Information System. Faculty of Computer Science & Information Technology
4. Dr. Ahmad bin Yussuf, Islamic Education Programme. Academy of Islamic Studies
5. Dr. Mohammaddin Abdul Niri, Department of Fiqh and Usul. Academy of Islamic Studies
6. Ms. Norshahzila Idris, UM STEM Centre
7. Ms. Nur Rasyidah Hasan Basri, UM STEM Centre
8. Mr. Mohd Faiz Azmi, Let's Go To Mummie's Lab



List of universities and schools involved

3 activities

FROM LET'S GO TO MUMMIE'S LAB MODULES

DENSITY JAR

Density Jar is a simple activity that teach the students about the different density of solutions.

ELECTRIC CIRCUIT

Electric Circuit is an activity to do a simple circuit with aluminium strips, LED and buzzer.

SHAPE & STABILITY

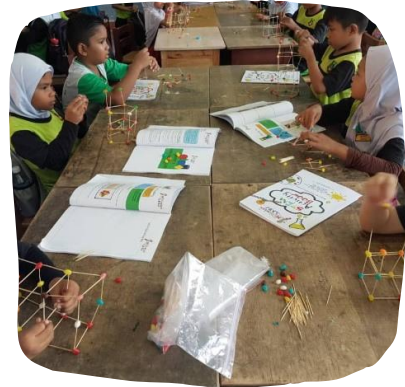
Shape and Stability is a fun activity to enhance the creativity of students on constructing their own model using jellybeans and toothpicks.

STEM AMBASSADORS IN ACTION!



SK (2) PETALING JAYA

25th Feb, 3rd Mar & 10th Mar 2020



SK LA SALLE, PETALING JAYA

25th Feb & 3rd Mar 2020



SK BANGSAR

26th Feb & 4th Mar 2020



SK KAMPUNG TUNKU

26th Feb, 4th Mar & 11th Mar 2020



SK SEKSYEN 9 KOTA DAMANSARA

27th Feb, 5th Mar & 12th Mar 2020



SK SEKSYEN 6 KOTA DAMANSARA

12th Mar 2020



SR ISLAM DARUL EHSAN

16th, 28th Jan, 11th, 29th Feb, & 4th Mar 2020 2020

STEM Coordinator: Dr. Mohammaddin Abdul Niri,

Department of Fiqh and Usul. Academy of Islamic Studies

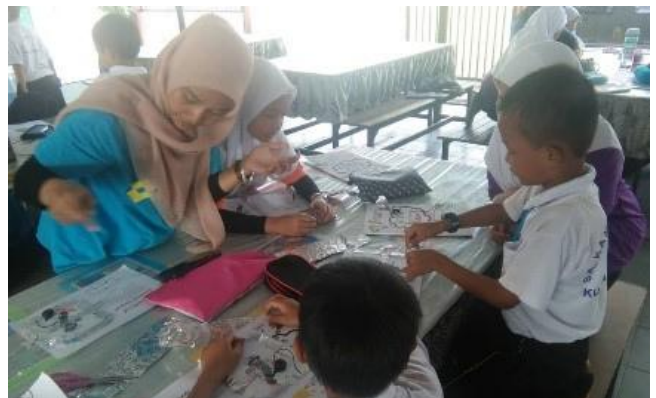


Sekolahku Universitiku

SK KG SELAYANG

27th Feb, 5th Mar & 12th Mar 2020

National level funded by Ministry of Education Malaysia &
University level funded by UMCares (Geran Kelab Sahabat UM)
Organised by: UM STEM Centre in collaboration with Student
Affairs Division, UM



STEM Ambassador Testimonials



I have taught the students of SK Kampung Tunku about the topics related to density jar, electric circuits and shapes and stability. Initially, they do not understand what the meaning and concept of the terms are. With my guidance throughout the activities, they began to understand the concepts and reasons behind them. They have gained knowledge about the topics.

(SAW MEI CHI, Faculty of Science)

STEM Mentor-Mentee programme has opened a new horizon to me. As this kind of volunteering activity is totally new to me, I believe that UM STEM has provided a right platform for it. Of course the challenges are there, especially the age barrier, however that is when your creativity comes into play. How do we make science seem to be interesting for them? How can we pique their interest in the STEM field? I believe there is no a specific single answer. And they remain to be discovered by us. I believe by participating in this programme, I was able to get closer to the community and open my eyes, to meet these kids, who came from different backgrounds. Hence reminding yourself to be grateful for your privileges.

(MOHAMAD AMIR HAMZAH, Faculty of Medicine)



Through the activities conducted, I encouraged them to start thinking the phenomenon around them from the scientific perspective so that they will try to find out the answer for the questions. Curiosity can improve their critical thinking skill. When they start to do so, they actually not rely wholly on their teachers to teach them knowledges, but they start to dig deep to find out the solution.

(CHONG JING CHUAN, Faculty of Business and Accountancy)



One of the most important contribution to the students are introducing them to the STEM learning to enhance their skills and capacities by encouraging experimentation and teamwork among the students. This program also indirectly contributes to the communities as the STEM program produces a generation who are well qualified in the Science, Technology, and Mathematics. This knowledge will contribute to the general well-being of the world.

(ARVEENAMATHII A/P VEERIAH, Faculty of Engineering)



A Comparative Study of Scientist-Teacher-Student Partnership (STSP) Model STEM : The Case of Malaysia and Turkey

8th - 15th February 2020

Dokuz Eylul University, Turkey

STEM Coordinator: Prof. Dr. Rohaida Binti Mohd Saat &

Dr. Hidayah Mohd Fadzil

Faculty of Education, UM



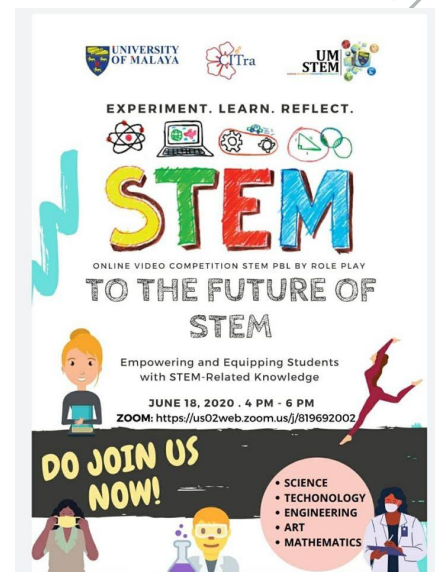
STEM Programs during MCO

Stay safe everyone

To the Future of STEM

18th June 2020

Organised by: CITra in collaboration with
UM STEM Centre



Karnival STEM dihatiku 5th June 2020 SMK Puchong Utama (1)

Platform: Google Meets

STEM Coordinator:

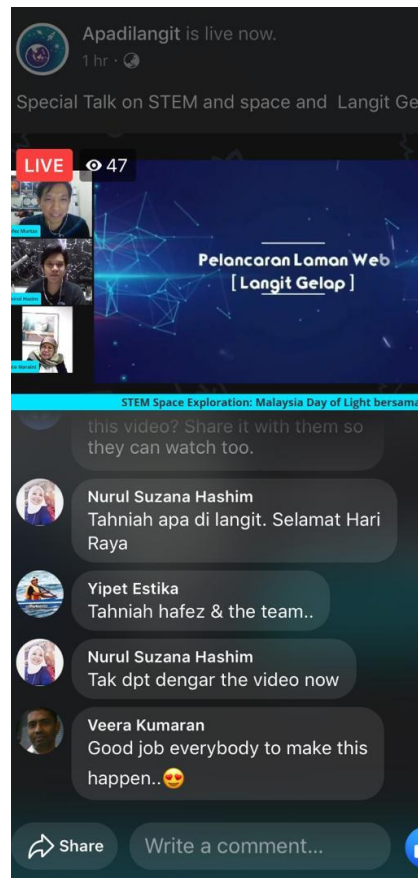
Mr. Norhafizan bin Ahmad

Faculty of Engineering, UM



STEM Space Exploration Malaysia Day Of Light in conjunction with International Day of Light 28th May 2020

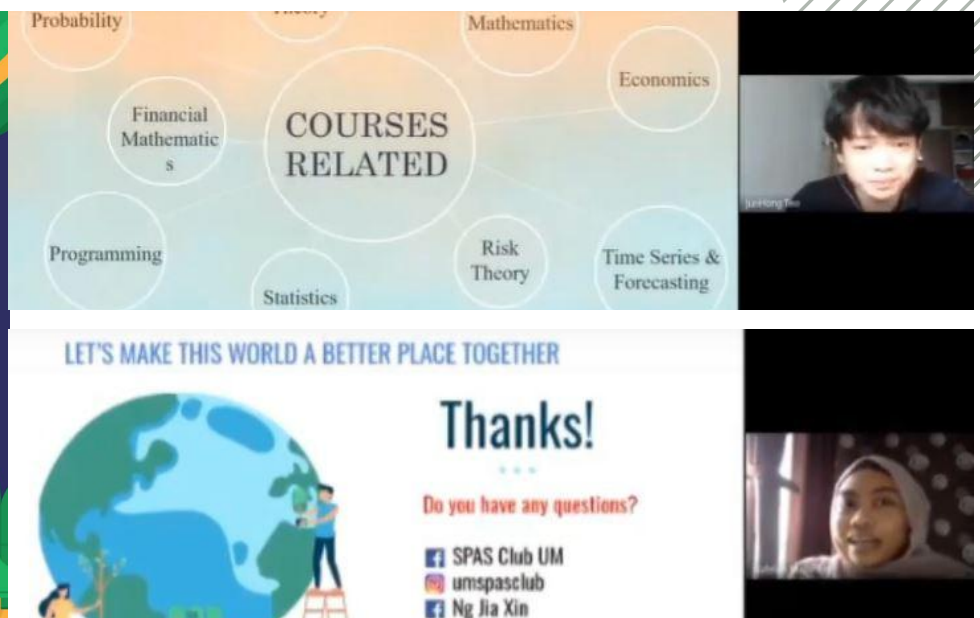
Platform: FB Live Apadilangit



Science Exhibition 9th - 10th May 2020

Platform: Google Meets

Organised by: Faculty of Science in
collaboration with UM STEM Centre



Congratulations!

MY STEM MCO CHALLENGE

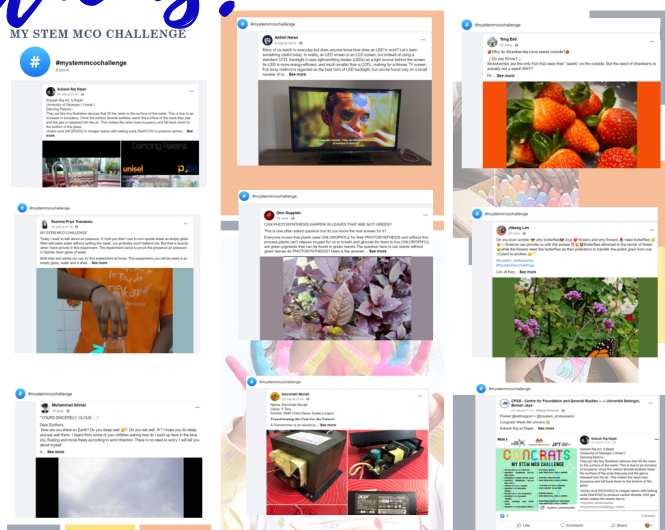
8TH JUNE - 19TH JULY 2020

MY STEM MOVEMENT CONTROL ORDER (MCO) CHALLENGE: SCIENCE OBSERVATION CHALLENGE

PLATFORM: FACEBOOK & INSTAGRAM

ORGANISED BY: UM STEM CENTRE & DEPARTMENT OF HIGHER EDUCATION, MINISTRY OF HIGHER EDUCATION MALAYSIA

IN COLLABORATION WITH: UNICHLD EDUCATION, 3D GENS AND TEKMARK



SigWorld Education is 🥳 feeling excited.
6 July at 17:30 · 🌐

✓ Liked

Congratulations, SMK Seri Bintang Utara for winning 3 awards in the recent BIEA 2020 International STEM Youth Innovation Competition!

- 1 Best Report: Team Rigel Kentaurus, SMK Seri Bintang Utara
- 2 Best Video: Team PEH, SMK Seri Bintang Utara
- 3 Rising Stars: Team ERE, SMK Seri Bintang Utara

You have brought Malaysia to the world stage, competing with schools from over 50 countries!

As the Regional Partners, #SigWorldEducation and UM STEM Centre are really proud of you! 🥳🥳🥳



AWARDED BY EXXONMOBIL 17TH JUNE 2020

UM STEM TEACHERS (PRIMARY SCHOOL) TRAINING PROGRAM

Prof. Dr. Rohaida Binti Mohd Saat
Assoc. Prof. Dr. Rose Amnah Abd Rauf
Faculty of Education, UM



PROGRAM TOT STEM BUILT EXXONMOBIL-UM



MAJLIS SERAHAN SUMBANGAN

Disediakan oleh:
Profesor Madya Dr. Rose
Amnah Abdul Rauf

Pada 17 hibi June 2020, satu majlis penyerahan sumbangan khidmat sosial daripada ExxonMobil kepada Universiti Malaysia dan badan lain untuk negeri Terengganu telah berlangsung di Pejabat Setiausaha Negeri Terengganu. Prof Dr Rohaida Mohd Saat mewakili Naib Canselor telah menerima sumbangan tersebut berjumlah RM75,000 dari Menteri Besar Terengganu dan disaksikan oleh Pengurus Besar ExxonMobil En Edward Graham. Sumbangan tersebut adalah untuk melaksanakan Program Latihan Guru STEM (TOT) sekolah rendah di Terengganu. Projek ini diketuai oleh PM Dr Rose Amnah Abdul Rauf dari Jabatan Pendidikan Matematik & Sains.

Liputan majlis tersebut boleh ditonton di

<https://www.youtube.com/watch?v=C14jwBqA7Xg&feature=youtu.be>

Congratulations!



**AWARDED BY
ON SEMICONDUCTOR GLOBAL
CORPORATE GIVING GRANT
1ST JAN 2018 - 31ST DEC 2019**

**SWITCH ON: SCIENTIFIC
ENLIGHTENMENT THROUGH
EXPOSITION, EXPERIENCE &
EXPERIMENT**

Assoc. Prof. Dr. Woon Kai Lin
Learning Enrichment Committee (LearnX),
Department of Physics,
Faculty of Science, UM

JOIN US!

More events!

20TH OCTOBER 2020

**THE 1ST SEA-STEM 2020
INTERNATIONAL CONFERENCE
IN CONJUNCTION WITH THE IMT-GT
UNINET STEM MEETING AND WEBINAR
ON ISLE-BASED STEM**

PLATFORM: ZOOM & YOUTUBE ONLINE

ANY ENQUIRIES, PLEASE SEND AN EMAIL TO
THE SECRETARIAT AT INFO@STEM.ID ORG,
STEM@UNSYIAH.AC.ID

Please visit: <http://stem.id/2020/>

The 1st SEA-STEM 2020

**Science, Technology, Engineering and Mathematics
International Conference & STEM Carnival Week 2020**

The 1st SEA-STEM (Southeast Asia - Science, Technology, Engineering, and Mathematics) is a virtual international conference organized by the STEM Research Center, Universitas Syiah Kuala (Unsyiah), supported by USAID through the Partnership for Enhanced Engagement in Research (PEER) Program, in collaboration with IMT-GT Uninet (Indonesia Malaysia, Thailand - Growth Triangle, University Network). This conference is a collaboration forum to discuss and share creative ideas, innovations, and the latest research progress in the fields of science, technology, engineering, and mathematics. This activity is a solid platform for academics, researchers, practitioners, and technology professionals from around the world to review and present the latest advances in their respective fields.

The sub-theme includes the following areas:
STEM Education, Science Education, Mathematics Education, Natural Science, Applied Science, Technology, Engineering, Mathematics, Computer, Information Technology, Electronics, IoT, and AI

Important Dates
Abstract Submission Deadline: September 20, 2020
Payment Deadline: September 20, 2020
Conference Date: October 20, 2020
Full paper submission: November 02, 2020
Final paper submission: December 02, 2020

Submission Guideline & Publication
Detail submission guideline information can be found at <http://stem.id/2020/>. All articles submitted will be peer-reviewed and accepted articles will be published in IOP Journal of Physics Conference Series (Scopus indexed proceeding).

Category	Rate
Presenter Local/International	Free
Student Presenter	Free
Non-Presenter	Free
IOP Proceeding Publication Fee	
Student	600.000 IDR
Regular	1.200.000 IDR
International	100 USD
BNI Account on behalf of Idris Mulla Sari	
Account Number 031725655	
SWIFT/BIC Code: BNINIDJAJ	

The Schedule SEA (South East Asia) STEM IC 2020

Day	Date	Activities
1st day	Monday, 19 October	IMT-GT Uninet STEM Meeting
2nd day	Tuesday, 20 October	International Conference
3rd day	Wednesday, 21 October	WEBINAR STEM-C
4th day	Thursday, 22 October	International Conference + WEBINAR ISLE-Based STEM

Due to the COVID-19 pandemic, all presentations will be held online.

Indexed by Scopus
Vantage
Jurnal Internasional
Widyaiswara
Research, 2017

Contact Person
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1. Milla Sari
2. Rini Oktavia
For Indonesian Participants:
Intan Milla Sari
stem@unsyiah.ac.id
<http://stem.id/2020>

SEA-STEM/2020

JULY - DECEMBER 2020



**PROGRAM MINI TEATER STEM
SELANGOR**

ORGANISED BY: PEJABAT SUK SELANGOR IN
COLLABORATION WITH NATIONAL STEM
ASSOCIATION & UM STEM CENTRE

PUBLICATIONS

SCAN
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BEST PRACTICES IN STEM MENTOR MENTEE

Price: RM 50

*Exclude postage

Compilation of research
paper presented at The 1st
National STEM Seminar 2018.



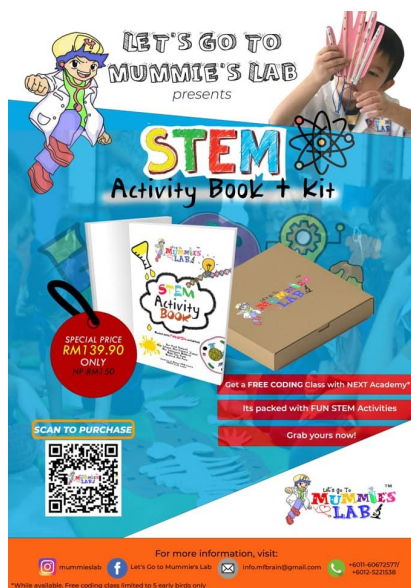
STEM ACTIVITY BOOK & Kit

Book only: RM 50 (9 modules)

STEM kit only (6 modules): RM 100

Package- Book & Kit: RM 139.90

*All prices are exclude postage

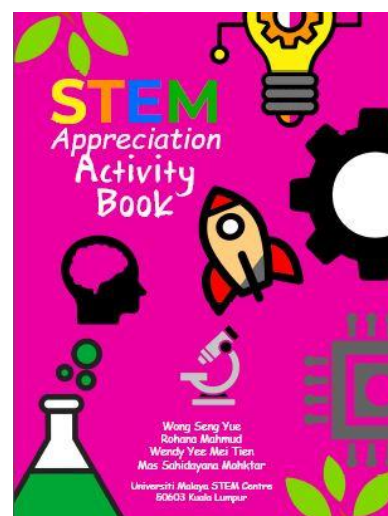


STEM APPRECIATION ACTIVITY BOOK

Price: RM 50 (10 modules)

*Exclude postage

This book is the output from
the GIX1004 STEM
Appreciation subject offered
by CITra Universiti Malaya.



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

Office

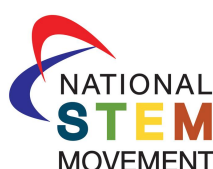
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MICROSOFT- UM STEM Learning Space



In affiliation:



Social Advancement
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Research Cluster
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