

**UM
STEM**

SCIENCE. TECHNOLOGY. ENGINEERING. MATHEMATICS.

UM STEM ACTIVITIES

STEM FORUM 2019

GRADUATES & EMPLOYMENT: ARE THEY READY
FROM INDUSTRY PERSPECTIVES?

29 April 2019

High Impact Research Building, UM



- This forum aims at promoting awareness and education to the campus community especially students on the importance of STEM education. This forum also provides an interactive platform between the university (academicians & students) and industry players who have experience in STEM career.
- The forum was moderated by Dato' Prof. Dr. Noraini Idris (Chairperson, National STEM Movement). The panelists include key players from industries: 1) Dr. Ruzaimi Mat Rani (Founder, Drawzania.com), 2) Dr. Rahmat Shazi (Technology Director, ShazInnovation Solutions), 3) Mr. Alex Tang Chee Keong (Dealer Principal, Quill Automobiles), and 4) Mr. Hishamuddin Mohamed (Senior Analyst Technology, Strategic Swiss Partners).



- Alongside with the STEM Forum, the MoU was exchanged between UM and industries, namely GAINS Education Group Sdn. Bhd. (represented by Datin Paduka Zaliza) and Uni Kids Edu Sdn. Bhd. (represented by Datin Seri Loke Chui Har).
- The purpose of the signing was to develop collaborative activities in STEM education to nurture interest in learning STEM subject among the students.



EE Makerthon 2019 - Drone Challenge

26 - 28 April 2019
University of Malaya

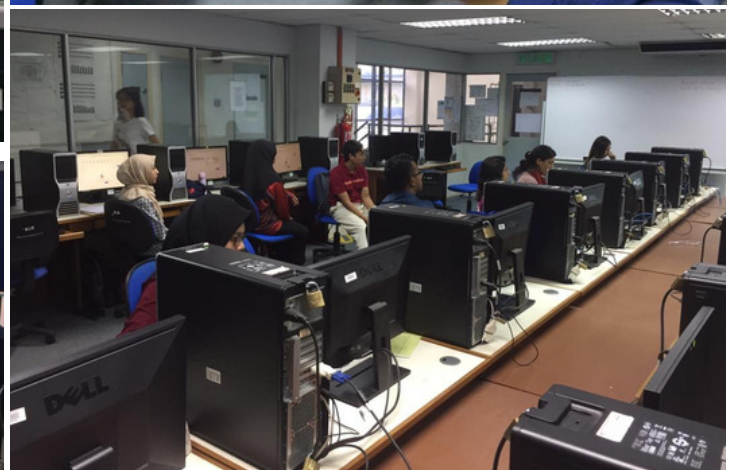
STEM Coordinator: Dr. Mohamad Sofian Abu Talip
Electrical Engineering Dept.,
Faculty of Engineering



STEM Microsoft Office 0365 Workshop

15 April 2019
CAD 1, Computer Lab.

STEM Coordinator: Ir. Dr. Mas Sahidayana
Biomedical Engineering Dept.,
Faculty of Engineering
Trainer: Mr. Raymond Tan
Organizers: Microsoft & UM STEM Centre



Program: Mentor Mentee MESTECC
SK Alam Shah 1, Selangor
7, 21 & 28 April 2019
PASUM

STEM Coordinator: Dr Faridah Sonsudin
Chemistry Division, PASUM
In collaboration with MESTECC

STEM AMBASSADORS IN ACTION!



Vocational College Sungai Buloh (STEM@FKUM - UMCares Project)

13 March 2019

Faculty of Engineering, UM

STEM Coordinators:

A.P. Dr. Roslinda Ithnin,
Chemistry Division, PASUM &
Dr. Mohd Nashrul Mohd Zubir,
Mechanical Engineering Dept.,
Faculty of Engineering



UM STEM Ambassador 1st Meeting 1 April 2019 DK 1, Block A, Faculty of Engineering

STEM Coordinator: Ir. Dr. Mas Sahidayana
Biomedical Engineering Dept.,
Faculty of Engineering

OBJECTIVES

- To create STEM empowerment among the university students; and
- To develop students' soft skills such as critical and creative thinking, leadership, communication, teamwork, and entrepreneurial skills.

Open to all undergraduate and postgraduate students.
For more information, please contact us at stem@um.edu.my



Young Explorer Science Camp

25 – 29 March 2019

TM Convention Center, KL

STEM Coordinator: Dr. Wan Safwani

Biomedical Engineering Dept.,

Faculty of Engineering

Organizers: Yayasan TM in collaboration

with Let's Go To Mummie's Lab & UM

STEM Centre

Yayasan **TM**



**STEM
AMBASSADORS
IN ACTION!**



25 - 29 MARCH 2019	Mystery Monday	Personal Identification Detective & Bionic Hand
26 March 2019	Tinkering Tuesday	DIY Prosthetic Leg & Math on the Move
27 March 2019	Wonders Wednesday	Electronic Circuit & Electrical Telegraph
28 March 2019	Terrific Thursday	Volcano Experiment & Fibre Optics
29 March 2019	Funtastic Friday	Engineer A Tower & Microwave Signals

Age 5 to 12 years old
Seats are limited to 30pax/day
Light snacks and lunch are provided
Professional Instructors from UM STEM Centre & TM TCOE, ITNT

CLICK HERE FOR REGISTRATION

Contact us:
yayasantm@tm.com.my
03-22400635 (Norlana)
03-22401795 (Zulitha)



RM60
per day
Discount RM50 for
full courses (1 week)



Life Made Easier™ **TM** Group



THESE EXCITING PROGRAMMES ARE

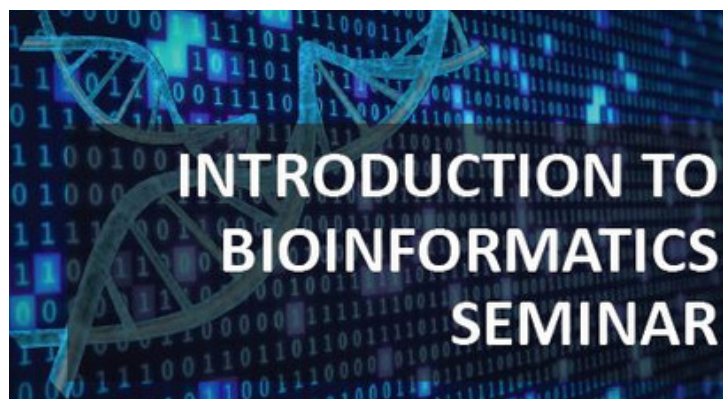
TO INSPIRE CHILDREN

TO BUILD ON THEIR NATURAL
CURIOSITY OF SCIENCE, TECHNOLOGY,
ENGINEERING, ARTS AND
MATHEMATICS (STEAM)

concepts through hands-on
learning.

For all photos:

[https://www.facebook.com/
pg/YayasanTM/photos/](https://www.facebook.com/pg/YayasanTM/photos/)



SPEAKERS:

Assoc. Prof Dr Sarinder Kaur
Dr Saharuddin Mohamad
Dr Sorayya Bibi Malek
Dr Chang Siow Wee
Dr M Vijayan Manickam

MARCH 16 2019

9 AM – 4 PM

**DG4 COMPUTER LAB,
BIOINFORMATICS, ISB**

CHAIRPERSON:

Assoc. Prof Dr Sarinder Kaur

TOPICS:

Introduction to Bioinformatics
Bioinformatics and Omics Technology
Ecology Informatics
VR and AR in Life Sciences
Protein Modelling and Simulation

CONTACT PERSON:

Pn Rosfizah Zuki
03-7967 6745

rosfizah@um.edu.my

** Tea break and lunch will be provided*



Introduction to Bioinformatics Seminar (PASUM Students)

16 March 2019

**DG4 Computer Lab,
Bioinformatics, ISB**

STEM Coordinator: A.P. Dr. Sarinder Kaur
Institute of Biological Sciences,
Faculty of Science



MoU Signing Ceremony UM & Green Growth Asia Foundation (GGAF)

17 January 2019

Malacca

UM STEM Centre MoU signing ceremony with Green Growth Asia Foundation (GGAF) to the establishment of STEM Learning Centre and STEM education research. GGAF is a nonprofit organisation that provides a platform for leadership, thought and action in responding to sustainability challenges in Asia.



MoU Signing Ceremony UM & The learning Curve (TLC)

14 March 2019

Pullman Hotel, Kuching,
Sarawak

UM STEM Centre MoU signing ceremony with The Learning Curve (TLC) to research, develop and launch an educational hybrid (solid fuel-liquid oxidizer) rocket on a sub-orbital trajectory from Sarawak by 2021 together with Universiti Malaysia Sarawak (Unimas), Universiti Teknologi Petronas (UTP), The Hills Lifestyle Community Lifestyle Hub and Strand Aerospace Malaysia.





Visit: Kolej Tingkatan 6, Shah Alam (STEM@FKUM - UMCares Project)

13 March 2019

Faculty of Engineering, UM

STEM Coordinators:

A.P. Dr. Roslinda Ithnin,

Chemistry Division, PASUM &

Dr. Mohd Nashrul Mohd Zubir,
Mechanical Engineering Dept.,

Faculty of Engineering



STEM Physical Computing Workshop

13 March 2019

Faculty of Engineering, UM

STEM Coordinator: Ir. Dr. Mas Sahidayana
Biomedical Engineering Dept.,

Faculty of Engineering

Trainer: Ir. Amir Hussein Jaafar

Micro Concept Tech Sdn Bhd



STEM PHYSICAL COMPUTING WORKSHOP

DATE
13TH
MARCH 2019

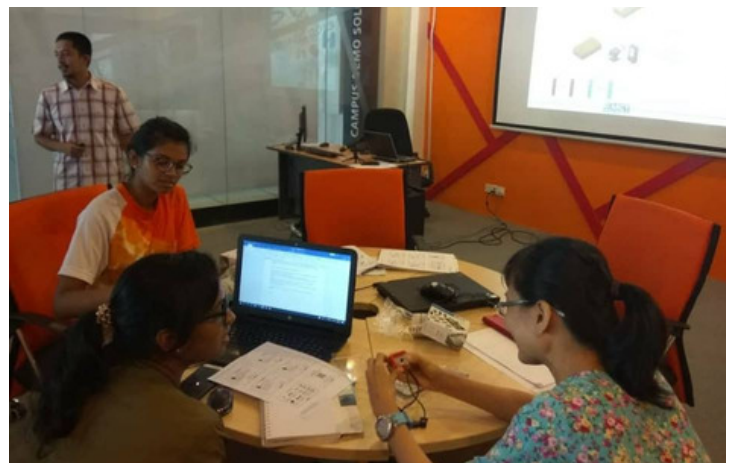
**FACULTY OF ENGINEERING
UNIVERSITY OF MALAYA**

2:30PM - 4:30PM **LIMITED SEATS**

EXPLORE AND LEARN BASIC OF ELECTRONIC COMPONENTS & PROGRAMMING MICROCONTROLLER

Learn about electronic hardware using Arduino or Microduino and learn about software programming using Scratch, Mixly or C language. Then built a real working project using electronic hardware and software programming.

www.microconcept.com.my
 SteminMe
 steminme@microconcept.com.my



IMT-GT UniNet STEM 2nd Meeting 12 March 2019 Universiti Putra Malaysia

Organizers: National STEM Movement
(NSM), IMT-GT UniNet & UM STEM Centre



STEM Edu Tour UM - SMK Sultan Ismail, Kelantan 1 March 2019 University of Malaya

STEM Teacher: Cikgu Hartini Hashim
STEM Coordinator: Dr. Salmah Karman
Biomedical Engineering Dept.,
Faculty of Engineering

In collaboration with Plant Biotechnology
Incubator Unit (PBIU) & LearnX@Physics





Projek Pelangi @ PPR Pelangi
STEM Mentor Mentee
 24 February, 10 & 30 March,
 6 & 13 April 2019 (ongoing)

STEM Coordinator: Dr. Kartini Abdul Jabar
 Medical Microbiology Dept.,
 Faculty of Medicine
 Subject: UPSR, PT3 & SPM
 Target: Student from the B40 group

STEM
AMBASSADORS
IN ACTION!



Program: Mentor Mentee MESTECC
Let's Go To Mummie's Lab
SK La Salle, Selangor

28 February &
18 March 2019

STEM Coordinator: Dr. Wan Safwani
Biomedical Engineering Dept.
Faculty of Engineering
In collaboration with MESTECC



**STEM
AMBASSADORS
IN ACTION!**



Congratulations UM!

MALAYSIA TECHNOLOGY EXPO 2019 (MTE)

21 - 23 February 2019

Putra World Trade Centre (PWTC), Kuala Lumpur

STEM Mentor Mentee Award & STEM Teaching Innovation Award were introduced by National STEM Movement (NSM) in collaboration with Malaysia Technology Expo.

STEM MENTOR MENTEE AWARDS 2019

To recognize an impactful STEM Mentor Mentee programs that have successfully implemented in their respective organizations and communities.

GOLD

1) Innovation in STEM Education Through Scientist-Teacher-Student-Partnership (STSP)

PI: Prof. Dr. Rohaida Mohd Saat

2) STEMBuild Primary Mentoring Program

PI: Dr. Rose Amnah Abd Rauf

SILVER

1) Let's Go To Mummie's Lab

PI: Dr. Wan Safwani Wan Kamarul Zaman



STEM TEACHING INNOVATION AWARDS 2019

To honor teachers and lecturers who are enhancing student achievement, increasing interest in STEM, beyond the classroom and into the future career.

SILVER

1) Innovative Product Project Initiative (IPPI)

PI: Dr Azah Anir Norman



Program: Mentor Mentee MESTECC
Let's Go To Mummie's Lab
SK Taman Medan, Selangor
**14, 21, 27 February &
 7, 19 March 2019**

STEM Coordinator: Dr. Wan Safwani
 Biomedical Engineering Dept.
 Faculty of Engineering
 In collaboration with MESTECC



STEM
AMBASSADORS
IN ACTION!



FACULTY STEM INITIATIVES

Faculty of Education

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

1 Dec 2018 - 30 Nov 2019

PI: Prof. Dr. Rohaida Binti Mohd Saat

Organizers: Dept. of Mathematics & Science Education & Faculty of Science

Workshop on Development of Scientist-Teacher-Student Partnership (STSP)

4 May 2018

PI: Prof. Dr. Rohaida Mohd Saat

School involved: SMK Sultan Abdul Samad Petaling Jaya, Selangor

Organizers: Faculty of Education & Faculty of Science

Students' Perception of Learning STEM-related Subjects Through Scientist-Teacher-Student Partnership (STSP)

1 June 2018 - 1 Feb 2019

PI: Dr. Hidayah Binti Mohd Fadzil

Target participant: Teachers & Form 4 students from 4 schools in Selangor

Organizers: Dept. of Mathematics & Science Education

Faculty of Built Environment

NUOF - Mangrove School Outreach

2 - 3 May 2019 & 8 May 2019

PI: Dr. Goh Hong Ching

School involved: SK (A) Sg Judah, Pulau Carey; SK Pulau Indah & SK (C) Hwa Lien, Pulau Ketam

Organizers: Faculty of Built Environment & Institute of Biological Science, Faculty of Science

#Landskapmampan: Membudayakan Inovasi di Sekolah

Aug - Oct 2018

PI: Dr. Sr. Zafirah Al Sadat Zyed

School involved: SMK Sultan Abdul Samad, Petaling Jaya

Organizer: UMCARES

The Amazing School

Aug - Oct 2018

PI: Dr. Nur Mardhiyah Aziz

School involved: SMK Jalan Kebun

Organizer: UMCARES

MR DIY Made Simple – Innovate & Decorate Competition. SMK Sultan Abdul Samad and Pusat Aktiviti Kanak-Kanak

Pantai Kerinchi

June - Dec 2017

PI: Madam Aniza Abdul Aziz

School involved: SMJK Sultan Abdul Samad

Organizer: UMCARES

FACULTY STEM INITIATIVES

Faculty of Science

The Next Einstein, Madam Curie

9 March 2019

PI: Dr. Zarina Binti Aspanut, Dr. Woon Kai Lin Dr Chong Wu Yi, Prof. Dr. Sithi V Muniandy

School involved: SBPI Gombak

Organizer: Dept. of Physics

Physics Open Day 2018 (POD2018)

15 Nov 2018

PI: JK LearnX (Sithi V Muniandy et al.)

School involved: Sekolah Menengah Sains Selangor, KL, WP & Sekolah Berasrama Penuh Integrasi Gombak, WP

Organizers: Dept. of Physics, & Persatuan Fizik UM, Faculty of Science

Kuala Lumpur Engineering Science Fair (KLESF) 2018

2 - 4 Nov 2018

PI: AP. Dr. Chin Oi Hoong & Dr Chiu Wee Siong

Community involved: 100 schools & Public

Organizers: Universiti Tunku Abdul Rahman (UTAR) & Institut Fizik Malaysia

Toying with Science

25 June, 18 - 20 Sept 2018

PI: Dr. Thamir Selvi Velayutham

School involved: SMK Seafield, Subang Jaya, Selangor; SK La Salle, Petaling Jaya, Selangor; SK Assunta, Petaling Jaya, Selangor; SK Taman Megah, Petaling Jaya, Selangor; SJKT Vivekananda, Petaling Jaya, Selangor & SJKC Sungai Way, Petaling Jaya, Selangor

Organizer: UMCARES

Fun Physics

28 & 29 April 2018

PI: Dr. Azzuliani Supangat & Dr. Thamir Selvi Velayutham

School involved: SBPI Gombak, WP KL

Organizer: Dept. of Physics

Future Scientist

27 & 28 April 2018

PI: Dr. Azzuliani Supangat & Dr. Thamir Selvi Velayutham

School involved: Sekolah Agama Menengah Hulu Langat, Cheras, Selangor

Organizer: Department of Physics

Toying with Physics

20 - 22 April 2018

PI: Dr. Azzuliani Supangat & Dr. Thamir Selvi Velayutham

School involved: Sek Men Sains Teluk Intan, Perak

Organizer: Dept. of Physics

Explore the Physics World

13 - 15 April 2018

PI: Dr. Azzuliani Supangat & Dr. Thamir Selvi Velayutham

School involved: Sekolah Menengah Teknik Kuala Lumpur, WP KL

Organizer: Dept. of Physics

Physics Interactive Camp

30 March & 1 April 2018

PI: Dr. Azzuliani Supangat & Dr. Thamir Selvi Velayutham

School involved: Sekolah Menengah Sains Perempuan Seremban, Negeri Sembilan

Organizer: Dept. of Physics

LearnX Phyiستا Exposition

29 March 2018

PI: Dr. Woon Kai Lin

School involved: SMK Sultan Abdul Samad Petaling Jaya, Selangor; SMK Seri Pantai, KL, WP & Sekolah Agama Menengah Bestari, Subang Jaya, Selangor

Organizer: Department of Physics

JOIN US!

upcoming
event!

The 2nd National STEM Seminar

14 - 15 August 2019

Centre for Foundation studies in Science
(PASUM)

STEM Coordinator: Dr. Mahanom Jalil
Biology Division, PASUM

The 2nd National STEM Seminar 2019
14 & 15 August

Are you a parent/student/educator? Are you a stakeholder looking for the next top local STEM talent? Come and join us at the University of Malaya where kids play STEM and adults share innovative and creative ideas in making STEM a fun learning experience!

PASUM
Centre for Foundation Studies in Science

Joint organiser
UM STEM

In collaboration with
NATIONAL STEM MOVEMENT

PARTICIPANT Come together for an awesome experience RM100	PRESENTER Abstract (min 300 words) submission required RM250	GROUP SPECIAL for group of 6 participants!!! RM500	SCHOOL SPECIAL up to 30pax school students RM500
ABSTRACT SUBMISSION Presenter may download abstract template from https://goo.gl/6lnefj and submit abstract to stemseminar@um.edu.my		BOOTH 1 large table and 3 chairs provided RM250	FAMILY PASS for 2 adults + 2 kids RM300

Registration fees (any package) include all-day pass, lunch and tea for 2 days!!

REGISTER NOW **2 Aug 2019**
Registration and Payment Deadline

Registration Link: <https://goo.gl/gRrvWU>

Online payment to PASUM, UM
Account number: 98905000001217 (CIMB)
Recipient reference: STEM2019
Recipient email: stemseminar@um.edu.my
** please upload a copy of proof of payment to complete your registration

Payment Instructions

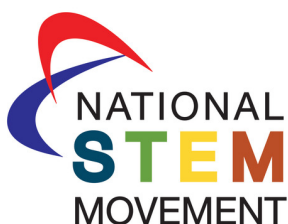
New
Office

Contact us:

UM STEM Centre Office
Ground Floor,
High Impact Research (HIR) Building
University of Malaya
50603 Kuala Lumpur
Tel: +603- 7967 3490
Email: stem@um.edu.my



In affiliation:



Social Advancement
& Happiness
Research Cluster
University of Malaya

@ stem@um.edu.my

f UM STEM Centre

ig umstem_centre