



UM STEM ACTIVITIES

NATIONAL INSPIRING MY STEM AMBASSADOR (NIMA)

27th - 28th November 2021

Organised by: Holistic Student Division, Higher Education Department,
Ministry of Higher Education Malaysia (MoHE)
in collaboration with Universiti Malaya and My STEM Ambassador Programme.



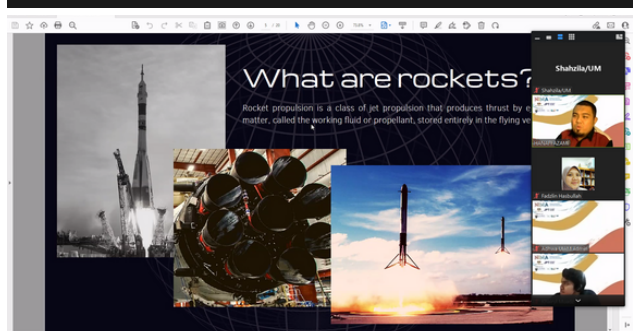
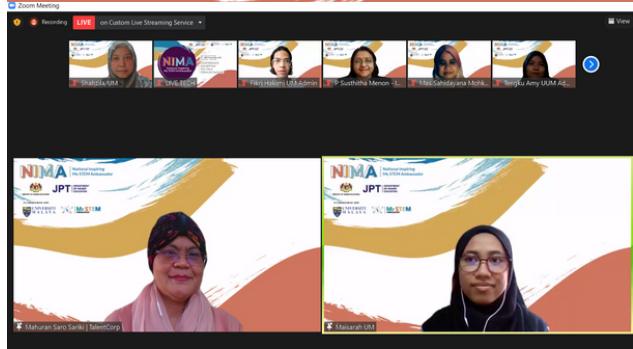
NIMA Platform

The National Inspiring My STEM Ambassador (NIMA) was held on 27th - 28th November 2021 to provide a platform for STEM empowerment through TED Talk, #OOTD, virtual booths, and paper presentations. This event was officiated by Associate Prof. Dr. Mohd Suzeren Md Jamil, Director of Holistic Student Division, Department of Higher Education. The Ministry of Higher Education believe that the unity of all 20 public universities conducting their programs based on respective themes unique to each varsity's identity would induce an extra pump to the varsity in keeping up with the ever-changing and revolutionary progress.

This unity is also brought to uphold the spirit of 'Keluarga Malaysia', a new phrase encompassing every Malaysian citizen under the 3 cores: inclusivity, common ground, and contentment. Previously, Bulan STEM Kebangsaan which was held between of 16th August to 16th September had seen its underlined objectives met by the establishment of My STEM Ambassador, which is to produce holistic students in every aspect. Now, by maintaining the dynamic of Bulan STEM Kebangsaan, NIMA comes to shine with the essence of flourishing communication in STEM.

Participants will gain extensive knowledge and insight into STEM education from different parts of the STEM field, such as in the fields of government, industry, academia, and NGOs. There is, indeed, plenty to reflect upon the ideas, information, interpretations, and visions. Feel free to visit the platform at www.nima.com.my. This platform is available to public.

NATIONAL INSPIRING MY STEM AMBASSADOR (NIMA)



NIMA National Inspiring My STEM Ambassador

Ministry of Higher Education | JPT | Department of Higher Education | In Collaboration with | UNIVERSITI MALAYA | My STEM Ambassador

STEM Nation | STEM Leadership | STEM Research | STEM Engineering | STEM Sustainability | STEM Global | STEM Automation | STEM Creator | STEM Society | STEM Robotics | STEM Thinking | STEM Health | STEM Defence

NIMA National Inspiring My STEM Ambassador

Saturday & Sunday
27 - 28th November 2021
10:00 AM - 4:00 PM

CONFERENCE
EXHIBITION
TED TALK
STEM SHOWCASE

Join us now:

My STEM Ambassador | Mystem_ambassador | stemambassador@um.edu.my

NATIONAL STEM MONTH 2021

16th August - 16th September 2021

Organised by: My STEM Ambassador Programme (20 IPTA)
and Holistic Student Division, Higher Education Department,
Ministry of Higher Education Malaysia (MoHE)

PARTICIPANTS

5280

REGISTERED

40

PROGRAMS

BULAN STEM KEBANGSAAN 2021
Kepimpinan Cendekiawan dalam Dunia STEM
2 September 2021 | Khamis |
10.00 - 11.30 pagi | Sijil Penyerahan Akan Diberikan

Bersiaran langsung di: Zoom UM STEM Centre

MENAMPILKAN PANEL:

 UMK	 UKM	 UM	 UMT
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Moderator: Nur Jannati Syakirin binti Ramli (Fakulti Sains UM)

Organised by: My STEM Ambassador stemambassador@um.edu.my

Pendaftaran:

BULAN STEM KEBANGSAAN 2021
STEM Gender Equality Mission
6th September 2021 | Monday |
9.00 - 10.30 a.m. MYT/ GMT+8

Live in: Zoom UM STEM Centre | Certificate of participation will be provided

Featuring panellists:

 UTeM Malaysia	 KFSH Research Centre Saudi Arabia	 UM Malaysia	 Halliburton Ltd Ghana	 USK Indonesia
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Moderator: Nur Amirah Safa (Faculty of Science UM)

Organised by: My STEM Ambassador stemambassador@um.edu.my

NATIONAL STEM MONTH 2021
COVID-19 and Beyond: The Journey | 7th September 2021

BULAN STEM KEBANGSAAN 2021
E-leadership in Post Pandemic
10th September 2021 | Friday |
10.00 - 11.15 a.m. MYT/ GMT+8

Live in: Zoom UM STEM Centre | Certificate of participation will be provided

Featuring panellists:

 Deputy Dean (Networking) FSTM, UKM	 Dean FSKTH, UM	 Dean MUJIT, UTM	 Deputy Dean (Undergrad) FSKTH, UM
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Moderator: Thenmoli Segaran (Faculty of Science UM)

Organised by: My STEM Ambassador stemambassador@um.edu.my

MAJLIS PELANCARAN MAYA BUKU
LET'S GO TO MUMMIE'S LAB: BELAJAR RUKUN NEGARA MELALUI STEM
16 SEPTEMBER 2021 (10.00AM-11.00AM)

Bersama dengan 2 pengarang utama:

Prof Madya. Dr. Nur Azah Hamzaid

Prof Madya. Dr. Wendy Yee Mei Tien

Emcee: Nur Aqilah Binti Jailani (Faculty of Engineering, UM)

Dengan kerjasama:

Live in: Zoom UM STEM Centre

Organised by: My STEM Ambassador stem@um.edu.my

Pendaftaran:

BULAN STEM KEBANGSAAN 2021
Manifesto 5 Minit Pemimpin STEM Masa Hadapan | 20 Ogos - 7 September 2021

Dianjurkan oleh:

Please check out our
Youtube Channel
UM STEM Centre



Don't forget to subscribe!

2021 Samsung Solve for Tomorrow - **FIXIT**

8th July – 4th Dec 2021

Organised by: Samsung Malaysia Electronics in collaboration with Universiti Malaya

Future world Creators!

Congratulations

PARTICIPANTS

PARTICIPANTS

198

STUDENTS

48

SCHOOLS

1st Prize:

Team TAZ

Samsung Edu Study App is an application for students in Malaysia to find an online study partner with. It aims to provide ease of access for online learning and encourages knowledge exchange among students and teachers from different schools.

Students: Zachary Sim Kah Yao, Adam Sim Kah Lock, Tan Zheng Li

Teacher: Pn Loh Ev Onne

School: ST Francis Institution Melaka

2nd Prize:

Team Fintech Semporna

Green Seaweed Bioplastic is a biodegradable plastic made from Semporna green seaweed that's designed to tackle carbon pollution and reduce the use of plastic waste.

Students: Mohammad Fahim Nazhan, Muhammad Fauzan bin Lakarani, Muhammad Fauzi bin Lakarani

Teacher: En Mohd Shahrul Hafiz Bin Abdul Ghani

School: MRSM Semporna, Sabah

3rd Prize:

Team Climate Crew

myPLANET Recycling App is a recycling tracker app that aims to raise awareness on the journey of recycled waste while providing a better access to sustainability and recycling for Malaysians.

Students: Yahaya Bin Basiron, Anis Batrisyia binti Ja'afar, Muhammad Amirul Firdaus bin Muhammad Ariff

Teacher: Dr. Liyana Amalina binti Adnan

School: Kolej Genius Insan, Negeri Sembilan

Consolation Prize:

Team Inventors

OrgaSTEM Biodegradable Pots is a biodegradable pot made from plant waste designed to reduce soil and water pollution caused by agricultural activities while reducing the use of plastic poly-bags in nurseries.

Students: Naylie Adriana Zahwa Bt Zulkarnain, Fatin Amni Bt Haril Sabran, Nur Afrina Najla Bt Mohd Faizal

Teacher: Pn Rabiatal Adawiyah Binti Suep

School: SMK Rantau Panjang, Selangor

Team Ardent Learners

The PAC Recycler is a paper and cardboard recycler designed to make the process of recycling these items more efficiently while ultimately reducing deforestation for paper-making.

Students: Chuah Yee Jia, Raja Aisha Binti Raja Azlan Shah, Saniyyah Binti Shah Jahan

Teacher: Dr. Lee Saw Im

School: SMK Seri Bintang Utara, WP Kuala Lumpur

Together with Universiti Malaya's STEM Centre, Samsung Malaysia Electronics has launched a campaign called Solve for Tomorrow 2021, a competition that inspires Form 1 and Form 2 students from secondary schools nationwide to create solutions that will fix issues faced by society through STEM with support from the Ministry of Education.

Please visit this website for more info:

<https://www.samsung.com/my/solvefortomorrow/>



Solve for Tomorrow



Team TAZ and teachers

UM-ILO-UK PARTNERSHIP IN STEM-TVET

28th October 2021

Organised by: The International Labour Organization (ILO), the Universiti Malaya (UM) and the United Kingdom government

On 28 September 2021, The International Labour Organization (ILO), the Universiti Malaya (UM) and the United Kingdom government launched a partnership to boost and promote the future readiness of Malaysia's technical and vocational education and training (TVET) and skills development systems with the integration of generic skills related to science, technology, engineering and mathematics (STEM).

The ILO-UK-UM initiative will build stakeholders' understanding of how STEM skills can be integrated into TVET and skills systems to support national aspirations to increase STEM adoption in the country. The initiative will support this by developing a model for integrating STEM elements into the TVET and skills training curriculum, and then share results of the pilot with key TVET and skills actors to implement a wider adoption of the model.

The ILO-UK-UM partnership is part of SfP-Malaysia's larger endeavour to improve the quality, inclusiveness, relevance and cost-effectiveness of TVET and skills development systems in Malaysia. SfP-Malaysia is part of the ILO-led Skills for Prosperity in South-East Asia Programme funded by the UK government. For more info, please visit

[https://stem.um.edu.my/Bulletin/\(Latest\)%20Press%20Release%20ILO%20UK%20UM%20Partnership%20for%20UM%20release.pdf](https://stem.um.edu.my/Bulletin/(Latest)%20Press%20Release%20ILO%20UK%20UM%20Partnership%20for%20UM%20release.pdf)



Opening remarks by Mr. Kebur Azbaha, Regional Lead for Skills for Prosperity Southeast Asia, Counsellor, British High Commission Kuala Lumpur



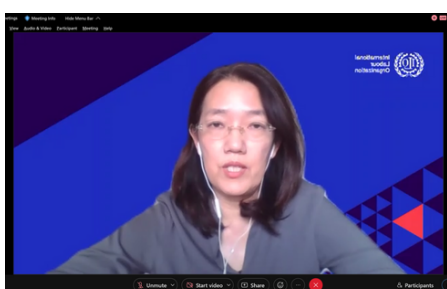
The ceremony was officiated by The representative of the Universiti Malaya Vice-Chancellor, Prof. Dr. Stefanie Shamila Pillai, Dean, Social Advancement and Happiness (SAH) Research Cluster, University Malaya



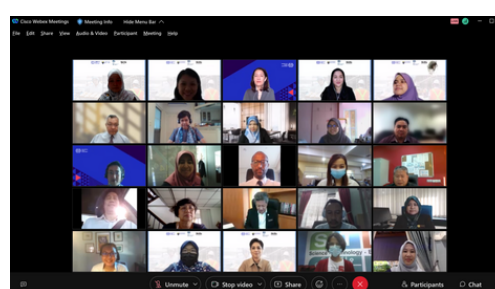
Opening remarks by Ms. Panudda Boonpala, Deputy Regional Director, ILO Regional Office for Asia and the Pacific



Panelists and respondent from ministry



Closing remarks by Dr. Akiko Sakamoto, Regional Skills Development and Employability Specialist, ILO Decent Work Technical Support Teams (DWT) for East and South-East Asia and the Pacific



Participants of the UM-ILO-UK Partnership in STEM-TVET launching program

BIEA 2021 INTERNATIONAL STEM YOUTH INNOVATION COMPETITION

March - November 2021

Organised by: BIEA in collaboration with regional partner
Universiti Malaya and Sigworld Education

Congratulations

PARTICIPANTS

192

STUDENTS

PARTICIPANTS

34

SCHOOLS

Grand Prize - Team Curious from SMJK Sin Min, Sg. Petani, Kedah

Champion - Team Karmaine from SMK Seri Bintang Utara, Kuala Lumpur (Category: Aged 15-17)

First Prize - Team Seagulls STEM from SK Seri Gelugor, Terengganu (Category: Aged 9-11)

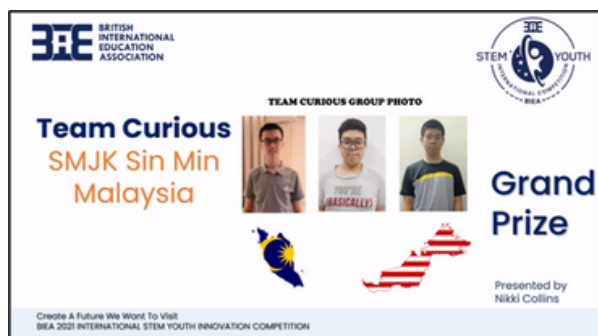
Third Prize - Young Science Innovators from SJK (T) Ladang Highlands, Selangor (Category: Aged 9-11)

Ambassadors Awards

- Team Pivotal from SMK Agama Putrajaya, Putrajaya
- Earth Angel from Raspi Sekolah, Selangor

Best Reports

- Green Dreamers from SJK (C) Chung Hwa Langkawi, Kedah
- Team SMKBP from SMK Bandar Putra, Kulai, Johor



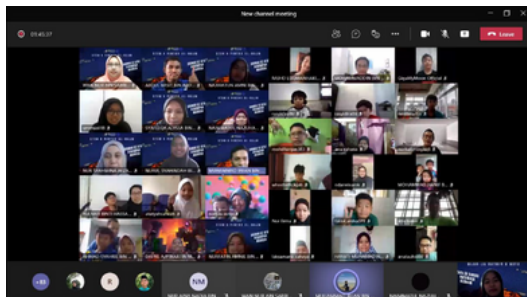
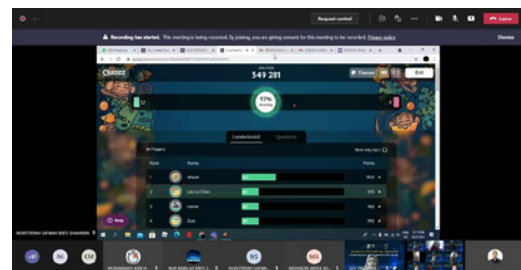
STEM DISCOVERY @ SCHOOL

STEM & PINTAR AL-QAMAR (HIKMAH BULAN DALAM IBADAH UMAT ISLAM)

26 Mei 2021

MS Team

Anjuran: Akademi Pengajian Islam (Program
Astronomi Islam UM) dengan kerjasama Pusat
STEM UM



STEM & PINTAR AN-NAJAM (EVOLUSI BINTANG)

2 Jun 2021

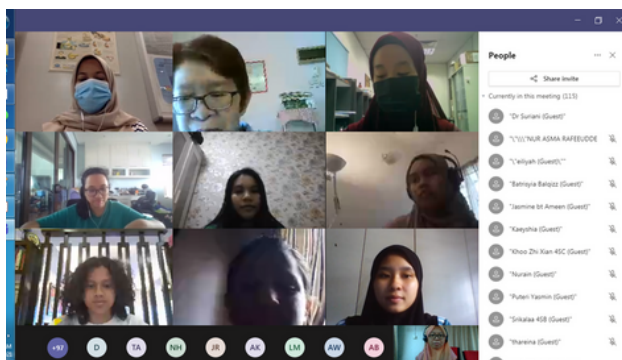
MS Team

Anjuran: Akademi Pengajian Islam (Program
Astronomi Islam UM) dengan kerjasama Pusat
STEM UM

MY WASTE, OUR WEALTH WEBINAR

16th August 2021. Platform: MS Team

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



Webinar Kebangsaan Jawi STEM

14 Ogos 2021 / 5 Muharram 1443H

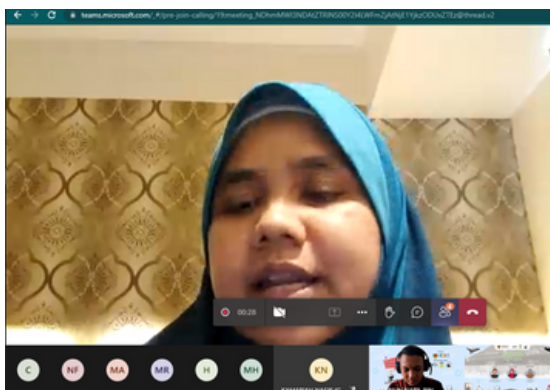
Anjuran: Pusat STEM UM & National STEM Association, Sekolah Rendah Islam Darul Ihsan dan Pasukan Aljawi Analytics, Jabatan Fiqh dan Usul, APIUM



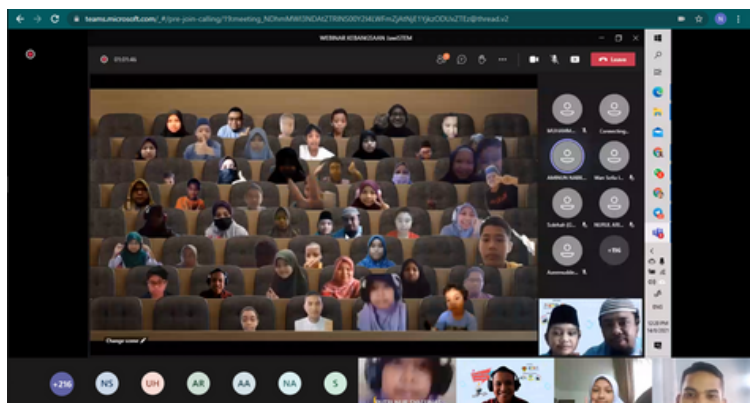
Ucapan perasmian program oleh Pengerusi Persatuan STEM Kebangsaan (NSA)



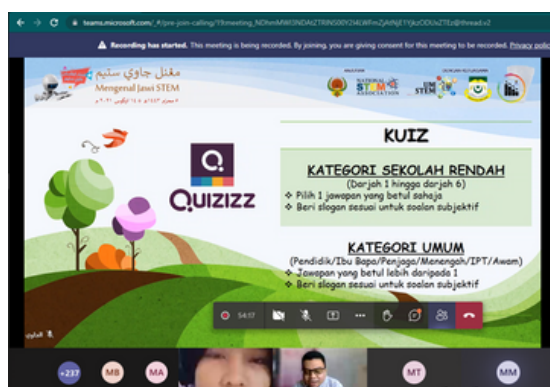
Ucapan JawiSTEM oleh Pengerusi Lembaga Pengelola Dewan Bahasa dan Pustaka (DBP)



Ucapan Inspirasi daripada Ketua Pusat STEM Universiti Malaysia



Kehadiran peserta secara dalam talian



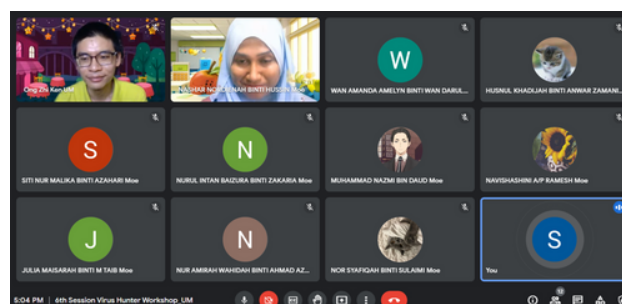
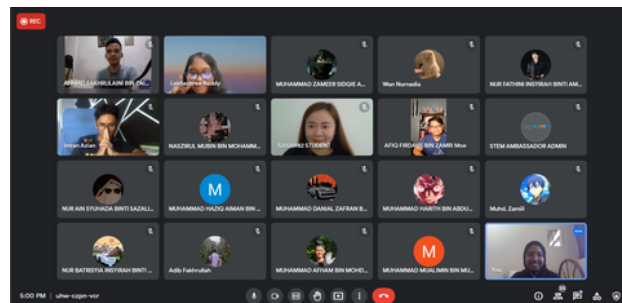
Sesi kuiz melalui platform Quizizz.

VIRUS HUNTER

8th October – 6th November 2021

Organised by: UM STEM Centre and Penang Science Cluster (PSC)

On 8th October until 6th November 2021, UM STEM Centre in collaboration with Penang Science Cluster has conducted a series of the virtual workshop, called 'Virus Hunter'. Due to Covid-19, this program aims to expose the students to the importance of vaccination and how the vaccine was made. Teachers and students from SMK Seksyen 9 Shah Alam, SMK Bandar Baru Sungai Buloh, and SAM Rawang have been successfully joined the program, guided by the trainers from Universiti Malaya.



Peneraju Tunas BRIDGE Karisma IPGM 2021

6th Dec 2021 – 31st Mar 2022

Organised by: myFlowlab Education and UM STEM Centre



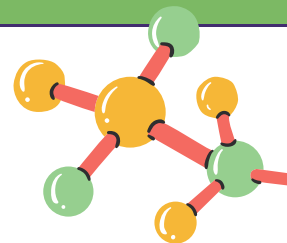
Module: **Integrated STEM Teaching**

Institut Pengajian Guru involved:

1. IPG Kampus Ilmu Khas, Kuala Lumpur
2. IPG Kampus Pendidikan Teknik, Nilai, Negeri Sembilan
3. IPG Kampus Perempuan Melayu, Melaka
4. IPG Kampus Tuanku Bainun, Pulau Pinang
5. IPG Kampus Temenggong Ibrahim, Johor
6. IPG Kampus Rajang, Sarawak

JOIN US!

More events!



Virtual Science Fair 2022 (VSF 2022)

Please visit: FB UM Virtual Science Fair 2022

Info: <https://virtuallsciencefair.wixsite.com/virtualsciencefair>



Program Mini Teater STEM Selangor, Kelantan & Kedah

January - December 2022

Organised by: National STEM Association & UM STEM Centre in collaboration with
State Government (Selangor, Kelantan & Kedah)

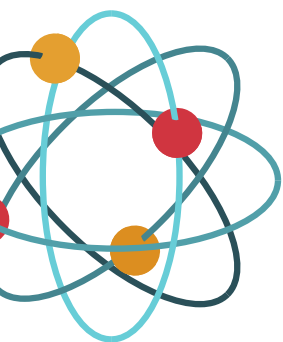
Target: secondary students



STEM Plus Recruitment Program

January - June 2022

Target: Open to all Degree / Diploma / Certificate Graduate
(2021 Graduates or final Year Students of 2021)



PUBLICATIONS

Sale
10%



Sale valid until 31th Dec 2022



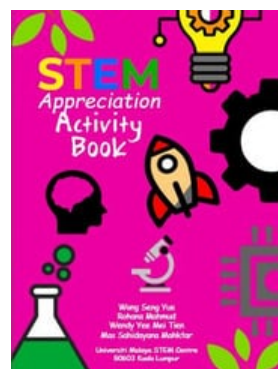
STEM ACTIVITY BOOK & Kit

Book only (9 modules): RM 45 (NP: RM 50)
STEM kit only (6 modules): RM 90 (NP: RM 100)
Package- Book & Kit: RM 125.90 (NP: RM 139.90)
*All prices are exclude postage

STEM APPRECIATION ACTIVITY BOOK

Price (10 modules): RM 45 (NP: RM 50)
*Exclude postage

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

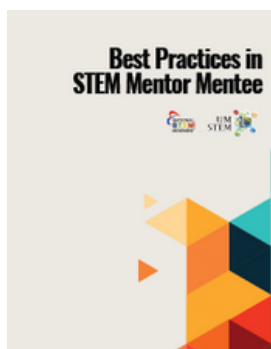


Best Practices in STEM Mentor Mentee

BEST PRACTICES IN STEM MENTOR MENTEE

Price: RM 45 (NP: RM 50)
*Exclude postage

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



BERMAIN DENGAN STEM

Price: RM 27 (NP: RM 30)
*Exclude postage

Panduan untuk Ibu Bapa berkaitan
STEM



Belajar Rukun Negara melalui STEM

Book only (9 modules): RM 45 (NP: RM 50)
Menyediakan bahan pendidikan berkaitan ilmu
kenegaraan melalui Prinsip Rukun Negara
melalui kaedah Sains, Teknologi, Kejuruteraan
dan Matematik (STEM)

UM STEM Centre members

Ir. Dr. Mas Sahidayana Mohktar

Head, UM STEM Centre

Prof. Dato' Dr. Noraini Idris

Honorary Professor & Advisor

Prof. Dato' Dr. Mohd Jamil Maah

Honorary Professor & Advisor

STEM Representatives

Dr. Hidayah Mohd Fadzil

Deputy Head (I)

Dept. of Mathematics and Science
Education, Faculty of Education

Dr. Mahanom Jalil

Deputy Head (II)

Division of Biology
Centre for Foundation Studies in Science

**A.P. Dr. Sarinder Kaur
A/P Kashmir Singh**

Institute of Biological Sciences
Faculty of Science

A.P. Dr Woon Kai Lin

Dept. of Physics
Faculty of Science

**A.P. Dr. Vannajan
Sanghiran Lee**

Dept. of Chemistry
Faculty of Science

A.P. Dr. Amira Sariyati Firdaus

Dept. of Media and Communication Studies
Faculty of Arts and Social Sciences

Dr. Nor Aishah Abdullah

Dept. of Science and Technology
Studies, Faculty of Science

Sr. Raha Binti Sulaiman

Department of Building Surveying
Faculty of Built Environment

**Mr. Norhafizan Bin
Ahmad**

Dept. of Mechanical Engineering
Faculty of Engineering

**Dr. Jadeera Cheong
PhaikGeok Binti Abdullah**

Centre for Sports and Exercise Sciences

Dr. AzahAnir Binti Norman

Department of Information System,
Faculty of Computer Science &
Information Technology

A.P. Dr. Yong Chen Chen

Department of Economics
Faculty of Economics and Administration

Dr. Azlin Zaiti Zainal

Department of English Language
Faculty of Languages & Linguistics

Dr. Kartini Binti Abdul Jabar

Department of Medical Microbiology
Faculty of Medicine



MICROSOFT- UM STEM Learning Space



Contact us:

Ir. Dr. Mas Sahidayana Mohktar (Head)
Norshahzila Idris (Research Officer)
UM STEM Centre Office
Ground Floor
High Impact Research (HIR) Building
Universiti Malaya, 50603 Kuala Lumpur
Tel: +603- 7967 3490

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

In affiliation:



**Social Advancement
& Happiness
Research Cluster
Universiti Malaya**



stem.um.edu.my



stem@um.edu.my



UM STEM Centre



umstem_centre



UM STEM Centre