

UM
STEM
SCIENCE TECHNOLOGY ENGINEERING MATHEMATICS

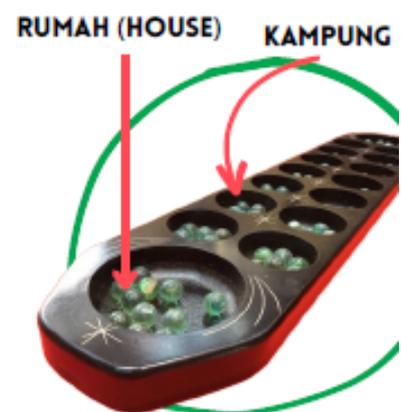
UM STEM ACTIVITIES

STEM Through Traditional Game - Congkak

18 May 2023

Cardiff Metropolitan University

The concept of learning STEM through Game Based Learning (GBL) has been used by the delegates of Universiti Malaya in a collaborative PIE2 program with Cardiff School of Technologies, EUREKA Robotics Centre, Cardiff Metropolitan University on the 18th of May 2023. A total of 28 girls aged 10-12 years old from Cardiff have been involved in the program. The activity session was carried out at Cardiff Museum and led by Ir. Dr. Mas Sahidayana Mohktar, Director of UM STEM Centre together with Dr. Zati Hakim Azizul Hasan, UM Program Leader for the PIE Program, Prof. Dr. Siti Nursheena Mohd Zain, UM, Ms. Chia Jing Hui, UM and Dr. Devi Fitriannah, Bina Nusantara University, Indonesia. A guidebook prepared by UM STEM Centre - "STEM Through Traditional Congkak Game" and plastic congkak with marbles were distributed to the groups of students.



Congkak is a traditional Malay game often played as an indoor activity or as a competition. Often, it uses hollow perforated wooden planks or holes on the ground and usually a 'buah' (game piece) using rubber seeds or marbles.

They were introduced to learning STEM through the traditional congkak game. At first, congkak may seem to be an unlikely tool to introduce Universiti Malaya STEM education. However, it is an interactive tool for honing mathematical skills such as addition and subtraction while strategizing the game to ensure the player wins by having more seeds in their 'rumah' (house).



Overall, just a game of congkak can emphasize many STEM attributes such as critical thinking and problem-solving skills which are essential in solving real world problems.

STEM DAN PERMAINAN TRADISI

BERSAMA
Ir. Dr. MAS SAHIDAYANA MOHK TAR
PENGARAH
PUSAT STEM UNIVERSITI MALAYA
WAN SYAMIMI WAN KAMARUL ZAMAN
PENYELIDIK
PUSAT STEM UNIVERSITI MALAYA

spm **ISNIN, 5 JUN 2023**
Selamat Pagi **8:30 PAGI**

tv1 **BERITA Cym** **MYTV** **rtm**
SALURAN 123 broadcasting SALURAN 101

LIVE selamatpagimalaysia **#nadiseripagi #rtmklk**



Ir. Dr. Mas Sahidayana Mohktar (Director of UM STEM Centre) and Miss Wan Syamimi Wan Kamarul Zaman (Project Officer at UM STEM Centre) join in an interview session with the host of Selamat Pagi Malaysia to talk on Introducing the concept of STEM and Traditional Game.

LAWATAN SK RELAU, KEDAH

3 Januari 2023

Muzium Seni Asia Universiti Malaya



LAWATAN SEK. REN. ISLAM DARUL EHSAN, SELANGOR

31 Januari 2023

Muzium Seni Asia Universiti Malaya



Universiti Malaya Research Carnival

8 - 10 January 2023

Research Management and Innovation Complex, UM

The Universiti Malaya Research Carnival was held from 8 - 10 January 2023 at the Research & Innovation Management Complex, Universiti Malaya. UM STEM Centre has been involved as an exhibitor and conducts engaging activities with school students through STEM activities. The primary objective of this gallery was to showcase UM's research and innovation initiatives and results to a diverse audience, including researchers, industry professionals, the media, and the general public. Additionally, the event provided an excellent opportunity for researchers, industry experts, media professionals, and the public to meet, connect, and engage with each other on various topics related to research and innovation across all disciplines.



PROGRAM PERTANDINGAN INOVASI SAINS, TEKNOLOGI DAN KEJURUTERAAN @ KL GATEWAY MALL

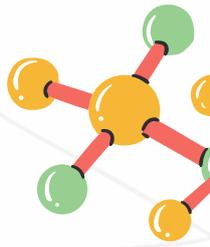
9 - 10 Februari 2023
KL Gateway Mall, Kuala Lumpur



Fun Session with Tadikum for Early Exposure to Digital STEM

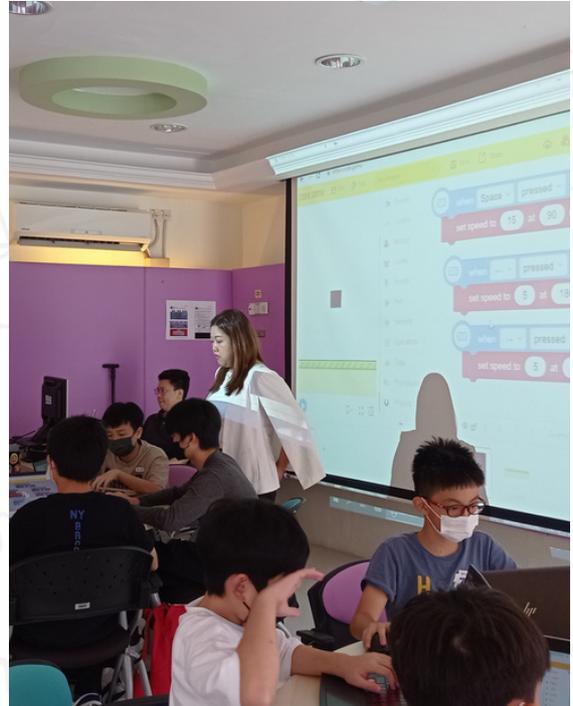
15 February 2023

Research Management and Innovation Complex, UM
Matroll Solutions in collaboration with UM STEM Centre and TADIKUM



EDUWEL MyTECH4Future

20 - 24 February 2023
EduWel in collaboration with UM STEM Centre



EDUWEL COMPETITION @ SURABAYA

4 - 7 April 2023
Surabaya, Indonesia
EduWel in collaboration with UM STEM Centre



STEM Discovery 2023

13 – 17 March 2023

High Impact Research Building / Muzeum Seni Asia / Faculty of Science

STEM Discovery program comes ahead for yet another series!

The program has a clear and noble objective of introducing young children, between the ages of 5 and 15, to the fascinating world of Science, Technology, Engineering, and Mathematics (STEM) in an enjoyable and interactive way. It's great to learn that this initiative is expanding to other places, providing more opportunities for children to learn STEM through hands-on activities. Through these engaging modules, children can learn and explore the wonders of STEM while having fun and engaging in hands-on learning activities.



STEM DISCOVERY 2023

LIMITED TO 30 PAX/DAY

13 MARCH - 17 MARCH | 9.00 A.M. - 4.30 P.M.

SPECIAL STEM SLOT EVERYDAY:

<p>RM 90/PAX MON (13.03)</p> <p>MUSEUM DAY! (9 - 12 YEARS OLD)</p> <p>Flipped Museum: Membuat Seramik with Augmented Reality experience</p> <p>Muzium Seni Asia, UM Muzium Etnologi Dunia Melayu, Jabatan Muzium Malaysia</p> <p>📍 Muzium Seni Asia, UM*</p>	<p>RM 50/PAX TUE (14.03)</p> <p>ENGINEERING DAY! (7 - 12 YEARS OLD)</p> <p>Virtual Reality World Dr Afiqah Hashim (Fac. of Engineering, UM)</p> <p>Let's Build a Paddle Boat! Ms. Syidah & Ms. Iwana (UM STEM Centre)</p> <p>📍 High Impact Research, UM*</p>	<p>RM 90/PAX WED (15.03)</p> <p>RUKUN NEGARA DAY! (7 - 12 YEARS OLD)</p> <p>Learn Rukun Negara through STEM (Let's Go To Mummy's Lab)</p> <p>*5 Modules for a day *LGTML STEM Kit included</p> <p>*Belajar Rukun Negara Melalui STEM' book is available (sold separately)</p> <p>📍 High Impact Research, UM*</p>
<p>RM 50/PAX THU (16.03)</p> <p>HEALTH & ILMU FALAK DAY! (7 - 12 YEARS OLD)</p> <p>Microorganism & Lung Health Dr. Kartini Abdul Jabar (Fac. of Medicine, UM)</p> <p>Ilmu Falak dan STEM Dr Mohamaddin Abdul Niri (Academy of Islamic Studies, UM)</p> <p>📍 High Impact Research, UM*</p>	<p>RM 50/PAX FRI (17.03)</p> <p>SCIENCE DAY! (7 - 12 YEARS OLD)</p> <p>Climate Change (i-clim, Dept. of Physics, UM)</p> <p>Microscopy Training Program Dr. Noorhidayah Mamot (Institute of Biological Sciences, UM)</p> <p>📍 Fac. of Science, UM*</p>	<ul style="list-style-type: none"> Participants are advised to bring their own stationery. Participants may bring their activity book/ storybook to do/ read during the break. A certificate of attendance will be given to participants. Food and drinks are not included in the fee.

*Specific program location will be provided to parents/ guardian after registration

PROMOTION:

- REGISTER 5-FULL DAYS FOR RM280 ONLY (FOR 9 - 12 YEARS OLD)
- REGISTER 4-FULL DAYS FOR RM190 ONLY (FOR 7 - 8 YEARS OLD)

Register now! Scan the QR Code

ORGANISER:



IN COLLABORATION WITH:



CONTACT US AT:

stem@um.edu.my
03 - 7967 3490



CAPACITY BUILDING WORKSHOP TO INTEGRATE STEM-RELATED SKILLS IN TVET & SKILLS TEACHING MATERIAL

2 - 3 May 2023

Centre for Instructor & Advanced Skill Training (CIAST), Shah Alam, Selangor
UM-ILO-UK Partnership

A two-day workshop on capacity building was organized for TVET officers responsible for developing teaching materials, as well as for Curriculum Quality Assurance and Head of Departments within the central government. The main objective of this workshop was to share and promote the understanding of how Science, Technology, Engineering, and Mathematics (STEM) can be integrated into the existing TVET teaching materials. The workshop focused on the methods and strategies of integrating STEM skills into the Written Instruction Materials (WIM) and other reference materials. The participants were able to understand and identify the different STEM-related generic skills already present in the curriculum. It was a great opportunity for the participants to enhance their skills and knowledge in the field of STEM education.



STEM Appreciation (GIX1004): STEM Mentor-Mentee Programme

5 May – 4 June 2023

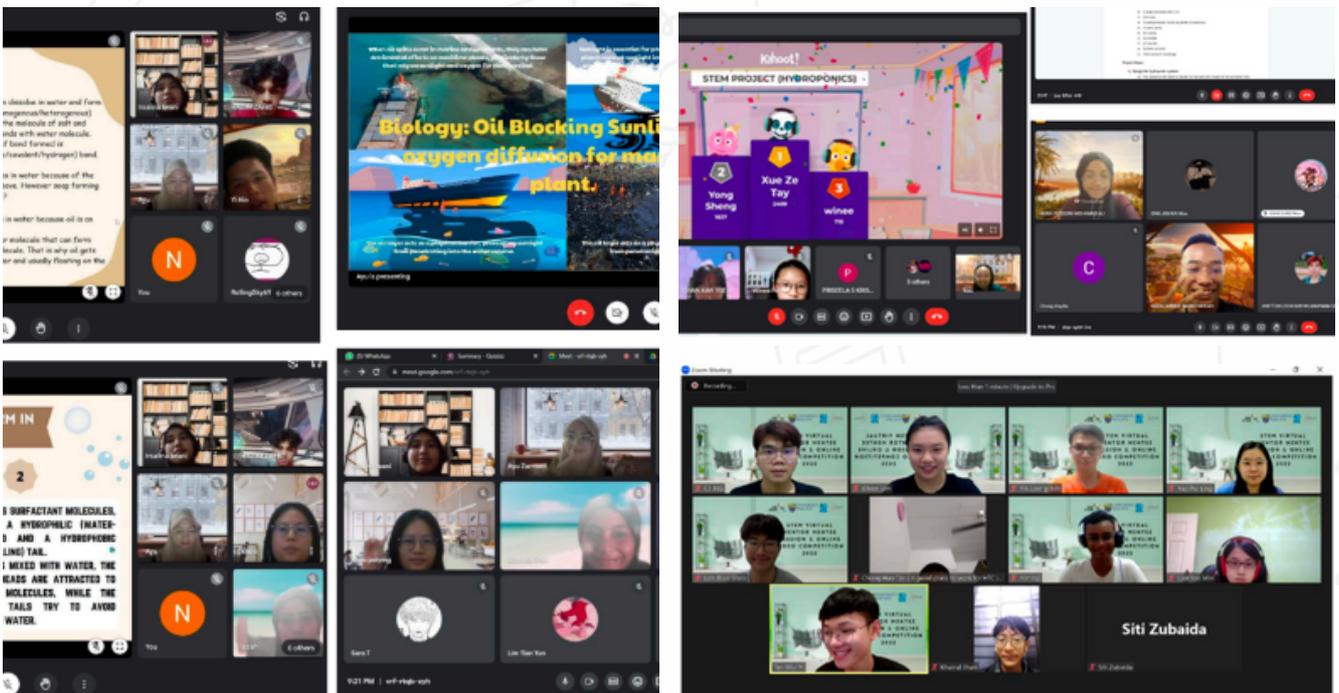
Centre For Internship Training & Academic Enrichment (CITra)
Universiti Malaya, (UM)



STEM Appreciation (GIX1004): Online Video Competition Semester 2, 2022/2023

18 June 2023

Centre For Internship Training & Academic Enrichment (CITra)
Universiti Malaya, (UM)



MyREF Program Pemerkasaan Ekonomi Luar Bandar (PEKB)

PEKB Melaka

11 June 2023

Sentral Riverview Hotel, Melaka

PEKB (Program Pemerkasaan Ekonomi Luar Bandar) is an initiative program by the Ministry of Housing and Local Government, which is organized by the Malaysian Research and Education Foundation (MyREF). The main objective of this program is to help the participants improve their business by developing strategic plans. UM STEM Centre has been entrusted with the responsibility of training the participants in the areas of research and financial management.



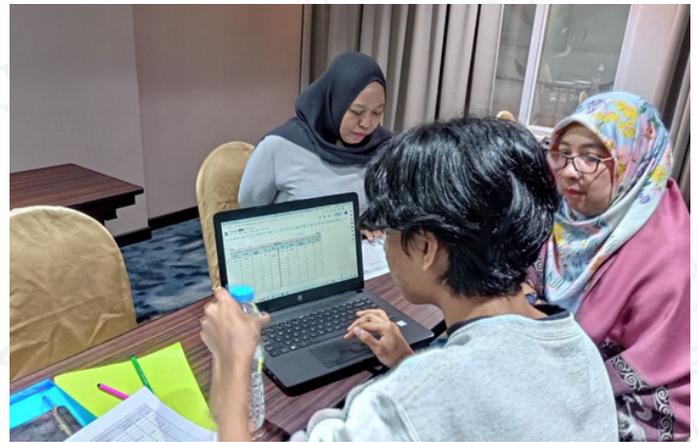
MyREF Program Pemerkasaan Ekonomi Luar Bandar (PEKB)

PEKB Kajang, Selangor

25 June 2023

RHR Hotel, Kajang

PEKB (Program Pemerkasaan Ekonomi Luar Bandar) is an initiative program by the Ministry of Housing and Local Government, which is organized by the Malaysian Research and Education Foundation (MyREF). The main objective of this program is to help the participants improve their business by developing strategic plans. UM STEM Centre has been entrusted with the responsibility of training the participants in the areas of research and financial management.



MY STEM AMBASSADOR - MICRON PROGRAM

INTEGRATED DESIGN PROJECT (IDP) 2023

21 June 2023

Faculty of Engineering, Universiti Malaya



MY STEM AMBASSADOR - MICRON PROGRAM

Program Rukun Negara dan Drone 2023

24 Jun 2023

Raudhah Autism, Sepang



STEM FOR SUSTAINABILITY: HONEYWELL - UM FINAL DESIGN COMPETITION

26 June 2023

Research Management and Innovation Complex, UM
Honeywell International in collaboration with UM STEM Centre

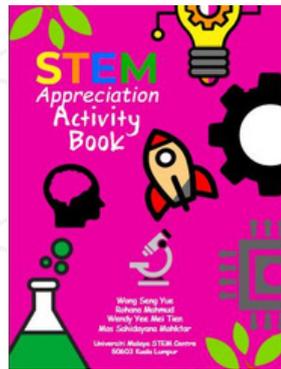
Honeywell collaborates with UM STEM Centre to encourage innovative and creative ideas from Malaysian students and address real-world challenges in sustainability by using Science, Technology, Engineering, and Mathematics (STEM) to compete in the Honeywell STEM For Sustainability Project Competition. The project involved second and third-year engineering students from research universities (RU) and Malaysian Technical Universities (MTUN). The initiative aims to promote STEM fields and raise awareness about STEM careers among students and parents.



Publications



STEM ACTIVITY BOOK & Kit



STEM APPRECIATION ACTIVITY BOOK



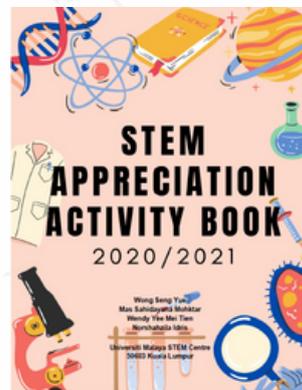
BEST PRACTICES IN STEM MENTOR MENTEE



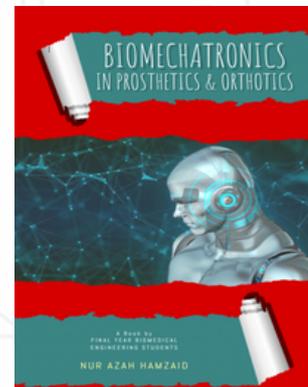
BERMAIN DENGAN STEM



Belajar Rukun Negara melalui STEM



STEM APPRECIATION ACTIVITY BOOK 2020/2021



Biomechanics in prosthetics & Orthotics

Office

Contact us:

Ir. Dr. Mas Sahidayana Mohktar (Director)
 Norshahzila Idris (Research Officer)
 Nursyahirah Ahamd Shukri (Project 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

MICROSOFT- UM STEM Learning Space



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