

“The old that is strong
does not wither, and
deep roots are not
reached by the frost.”

- J.R.R. TOLKIEN



INSIDE THIS ISSUE

SPECIAL HIGHLIGHT:

Impact of Online Learning pg 5
Mysteries of Physics in Life pg 3

OTHER INTEREST:

Welcome! Batch July 2020 Intake pg 2
Merdeka Poster Competition pg 2
The Kangaroo and Kancil Comp. pg 4
Financial Planning pg 6
SPM Clinic Series pg 6
How Industries Engage with Science pg 7

THE PATH

CENTER FOR PRE UNIVERSITY STUDIES / VOLUME 7 / 2020 / OCTOBER





WELCOME! STUDENTS OF JULY 2020

AUTHOR: CHEN CHER AND JIEN YONG

On the 8th to 9th of July 2020, an orientation programme was held. This program is essential for first year students to meet their various needs as they proceed through their respective programs. MAHSA has proven to arrange a well enjoyed orientation for the July intake students.

During this two-day program, the students were introduced to MAHSA's song and later took their oath to be responsible MAHSA-ians. As this program was held during this RMCO period, students were briefed on the MCO SOP Compliances and this program was held for a shorter period with social distancing practiced. Later, the participants gathered for a group photography session before the departure of the VIPS. Students are also briefed about the university's finance and scholarships as well as the health assessment. The participants were also given the chance to take a personality test.

On the second day, the students were introduced to the Student Representative Council and the MAHSA Sport and Recreation Centre (MAPS). They were also shared about the campus' facilities and security. Students who stay in the hostel had beneficial briefing about the campus residences. Next, they had a library briefing before they proceeded to settle their IT and LMS accounts which are compulsory for all students. Students were then given the opportunity to have a short interactive session. A short survey was taken before the students were released for their lunch break. When they returned from their break, a friendly meet and greet session with the faculty was carried out before this program was concluded.



MERDEKA POSTER COMPETITION

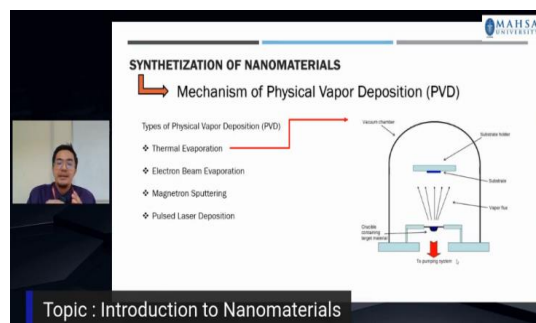
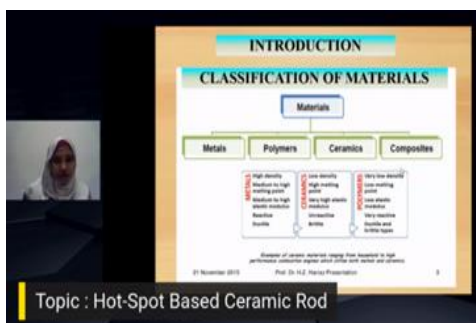
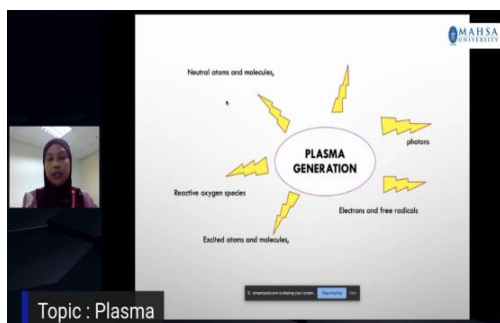
AUTHOR: CHEW MEI JING

Once again we celebrate the most important day in Malaysia – the Malaysia National Day – also known as Merdeka Day. Merdeka Day is our day of independence, which is held to commemorate the moment when our country gained independence from British colonial after several negotiations among leaders of Malaya led by Tunku Abdul Rahman and British officials on 31st August 1957.

In conjunction with the Unity month handled by School of Nursing, Centre for Pre-University Studies (CPUS) organized a Merdeka Poster Drawing Competition. The competition was conducted virtually due to the current COVID-19 outbreak. As a guideline, participants should submit their poster together with their details by sending an email to person in charge before 27th August 2020 by 12.00PM in PNG/JPG/JPEG/PDF format. All submissions must be student's original creation.



With cooperation from all faculties, we received up to 15 great posters from students and three winners were chosen. The champion of Merdeka Poster Drawing Competition went to Lim Xin Xian from Foundation in Science, followed by 1st runner-up Sharon Tan Wei Yi from Foundation in Science and 2nd runner up Chua Yeok Mun from Faculty of Medicine, Bioscience and Nursing(FoMBSN). Prizes and certificates were awarded to the winners while participation certificates were given to all participants.



WEBINAR: MYSTERIES OF PHYSICS IN LIFE

AUTHOR: DR MOHAMAD HELMI, MDM SITI AZWANI & DR NORHAYATI

In this pandemic season, webinars are among the best marketing platforms available for educators to reach out to potential students. Hence, the Centre for Pre-University Studies has conducted a webinar series on mystery Physics in life. Dr. Helmi was the first speaker and he is an expert in the nanotechnology field. Nanotechnology is one of the highly demanding fields which has been introduced since the era of Albert Einstein during the introduction of Modern Physics. The webinar on Nanotechnology is focusing on the basic knowledge on the topic and the main purpose is to invite and expose young scientists to explore the field. The webinar also exposes the audience to how to synthesize the nanomaterials and what kind of techniques can be used for the synthesis.

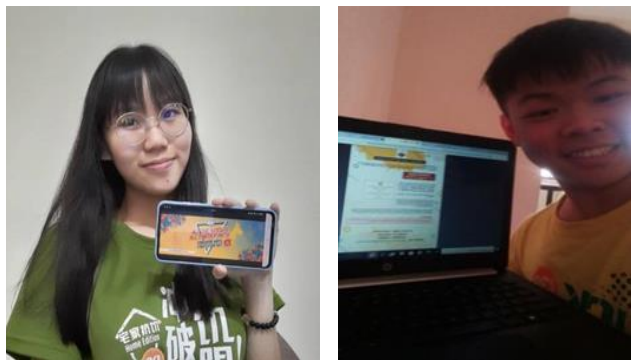
“With proper knowledge, correct guidance, and opportunity, one can give out the very best.”

Mystery of physics depend on one's interpretations. Various aspect has yet to be discovered and learning is a never-ending story. The more you know, the more you do not know. Continuous learning and discovering will offer a great opportunity and life balance. Dr. Norhayati who was the second speaker is an expert in the plasma field said, “Plasma in life offers great potentials and full of mystery. Various applications are yet to be designed. With proper knowledge, correct guidance, and opportunity, one can give out the very best.”

The second part of mystery Physics in life webinar focused on ceramic materials. Ceramics sensors which played an increasingly important role in monitoring and control applications for industries and have been continuously developed to improve sensing capabilities and performances. Sensors are also vital to medicine to be used for diagnostics and public health. The most widely used oxygen gas sensor which detects oxygen gas need to be activated by some form of external heating. Interestingly, self-heating and simple type of oxygen sensor based on REBa₂Cu₃O_{7-δ} ceramic (RE= Gd and Sm) were discovered utilizing the hot spot phenomenon. The formation of the hot spot phenomena on REBa₂Cu₃O_{7-d} rods is related to their positive temperature coefficient of resistivity (PTCR) characteristics.

The webinar also exposed the audience to the improvement of performance on oxygen sensing by using the REBa₂Cu₃O_{7-δ} ceramic sensor rod and researchers have been continued to explore the capabilities and to improve oxygen response of the REBa₂Cu₃O_{7-δ} ceramics with the replacement of RE by other rare earth elements (RE=Er, Dy, Eu). “Further study will lead to the enhancement of understanding and contribute new knowledge about the mechanism of oxygen sensing properties with the hot spot formation involving on Cu-site RE₁₂₃ system.” said Madam Azwani, who was our third speaker.

The webinar brought insight to the viewers regarding the demanding field in Physics nowadays. Come and join our Foundation in Science program to learn more about Physics from all these experienced lecturers.



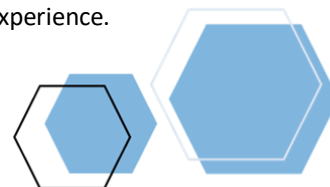
KANGAROO MATH COMPETITION

AUTHOR: MICHELLE YIUN KIEW TIING

Kangaroo Math Competition (KMC), the largest math competition in the world is held annually for primary, secondary, and pre-university students. KMC has been organized in Malaysia since 2013 by Kangaroo Math Malaysia. All students in Malaysia are eligible to participate in this competition. The main objective of KMC is to create a fun and engaging way for students to develop their problem-solving abilities in Mathematics. KMC was held on August 8 for this year and opened from 10 a.m. to 10 pm. However, the duration of the competition is 1.5 hours. The competition can be conducted through online and offline methods depends on the teachers in charge of each school.

This year, Centre for Pre-University Studies took the opportunity and has registered Kangaroo Math Competition to expose Pre-U students to the national level of math problems. The 3 students from the Centre for Pre-University Studies are Leong Kar Qi, Lim Win Nie, and Chua Winson.

Mdm Siti Salmiah has been actively training them for this competition. Each student is required to have a device to answer the questions online during the contest. They should also ensure they have a stable Internet connection. The competition went well and more students are encouraged to take part in this competition in the future for them to gain many benefits and valuable experience.



THE KANCIL SCIENCE COMPETITION

AUTHOR: CHEW MEI JING

Kancil Science Competition (KSC) is an annual national competition held by Kancil Science Malaysia (KSM) with official endorsement from the Ministry of Education Malaysia. This competition aims to challenge students' science knowledge through critical thinking, problem-solving, and general scientific knowledge.

It is open to all Malaysian school students within the age group of 7 to 19 years old. Three passionate students from the Centre for Pre-University Studies (Foundation in Science) participated under the Delta category – Justin Khor Lheng How (batch May 2020), Anis Amalina bt Mohd Rodzi, and Maryam Hanisah bt Mohamad Suhor (batch July 2020).

The competition was held online, in which our students had to log in to www.contesthub.my on the K-Day (Kancil Day) on 23rd September 2020 from 3:15 pm to 4:30 pm. After logging-in, they were required to answer 30 objective questions designed by education professionals in 75 minutes under the guidance of our person-in-charge from the Pre-U.

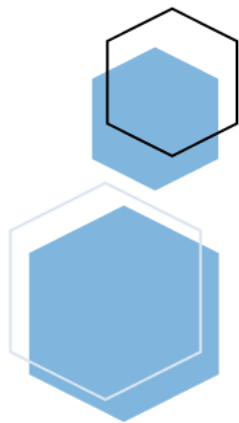
In each category, the top 10% of all participants will receive gold, silver, and bronze medal respectively, while the top 40% will be awarded an honourable mention certificate and the top 50% will be awarded a certificate of participation.

The result will be announced later in early November – lets wish our participants the best of luck!



Student List	
Username	Name
2020D899	JUSTIN KHOR LHENG HOW
2020D90	ANIS AMALINA BINTI MOHD RODZI
2020D900	MARYAM HANISAH BINTI MOHAMAD SUHOR





WEBINAR: ONLINE LEARNING FOR TEACHERS AND STUDENTS

AUTHOR: DR MOHAMAD HELMI, MDM SITI AZWANI & DR NORHAYATI

In conjunction with School Outreach Month, Centre for Pre-University Studies has conducted a live webinar via MAHSA Facebook on Friday, 12 June 2020. Pre U invited three speakers which were Dr. Ku Mohd Kalsausar, a lecturer from the Malaysia University of Terengganu, Mr. Ahmad Hambal, General Manager of TutorKami.com and FIS alumni, Ms. Lim Win Nie to share their thought and point of view on the topic that has a silver lining which is 'Opportunities in Online Learning for Teachers and Students'. Mdm Masitah binti Mat was the moderator of the webinar. Covid-19 pandemic has caused all universities, schools, tuition centers to shut down for months and education has been moving to virtual learning. There are lots of challenges facing by the students and educators in online learning, but we should take all the challenges as opportunities to learn new skills and adapt to the new normal.

Moderator started the webinar with a question of the impact of coronavirus pandemic on teaching and learning mode. According to Dr. Ku, this pandemic has turned our life upside down. Before Covid-19, teachers need to do a lot of physical preparation to the class such as getting ready and drive to work, stuck in the traffic jam. However nowadays, teachers can prepare for classes from home, such as recording video, preparing for lecture notes and many more from the comfort of their own bedroom. The pre-recorded video also can be used multiple times for all classes that has the same lesson. Before this, students usually use the internet for social media. But now, the internet has been widely used for more beneficial activities. Working from home does have disadvantages though, such as temptation to procrastinate, distraction from the kids, and household chores. Hence, time management is very important.

Moving on to the second question, Mdm Masitah asked Mr. Ahmad regarding his point of view on the rising opportunities for online learning. Mr. Ahmad responded that new opportunities arise as we can be a tutor and teach students online for additional income. Tutors can charge a lower rate to the parents as they no need to go to the students' house, no limited number of students as online learning can be accessed by students all over the world. Online learning can be participated by up to 500 students. Students can have flexible time to join online classes. Using online teaching platform, lecture videos can be recorded, and students can re-watch and do their revision as per needed.

Another question was asked by the moderator to Ms. Lim Win Nie on her opinion regarding the technical skills needed by online students for them to cope and catch up with learning at home. According to Win Nie, this is her first time to involve with e-learning and it was a great experience. Students should know how to handle and use all the apps for e-learning such as zoom and google meet. Students also should have suitable applications on their device to access the learning platform, know how to convert word documents to pdf, edit video for presentations, and so on. Lastly, students should have the strong discipline to attend online class on time and submit assignments in a timely manner.

During the live session, one of the audiences asked which of the free platform is the best. Dr. Ku said that the best free platform is google meet, also known as google hangout. It could participate around 100 persons at a moment, very stable even with an unstable connection. The session was very fruitful and ended successfully with lots of information that can be implemented in our daily life.

“Before this, students usually use the internet for social media. But now, the internet has been widely used for more beneficial activities.”

FINANCIAL PLANNING FOR UPCOMING OPPORTUNITIES

AUTHOR: MICHELLE YIUN KIEW TIING



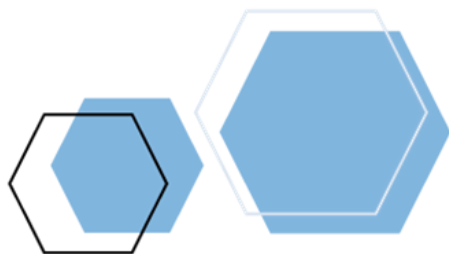
The Pre-University department from MAHSA University had organized a webinar with Sky Strike Resources. Mr. Eztra Chee was invited to join this session. He shared his experience about having no financial preparation. He has learned a few important things during that difficult time.

He recommended a financial structure for businesses and individuals called a financial pyramid. There are six levels included in the pyramid. The basic need is the most essential and it is put at the bottom of the pyramid. Then, it is followed by risk management, savings, investment, restructuring, and distribution. Some suggestions were given for beginners who just starts doing financial planning. They are advised to emphasize the four basic sections that are a basic need, risk management, savings, and investment.



There are four key points to get ready for a financial opportunity that is changing the business model, keeping reserve money, seeking investment chances, and learn some skills. Changing the business model is to ensure that multiple incomes for your business but they should not be closely related. He suggested us to do a calculation every month to regulate our financial situation. The calculation is your monthly income over your expenses which is already minus to our passive income. Then, the number you get should be 25 and above to reach financial freedom.

In summary, financial planning and preparation are so important to lead us on a better life and lower financial risk caused by loss of income, no proper saving, and others.



WEBINAR: SPM CLINIC SERIES

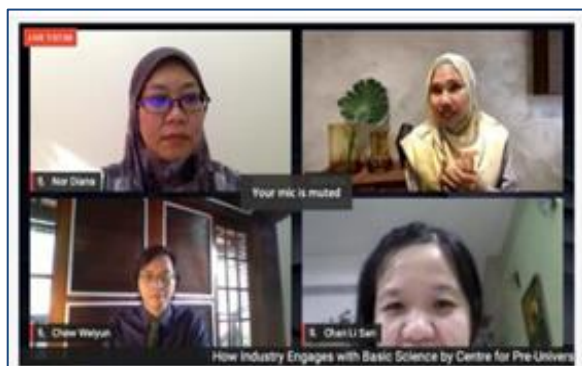
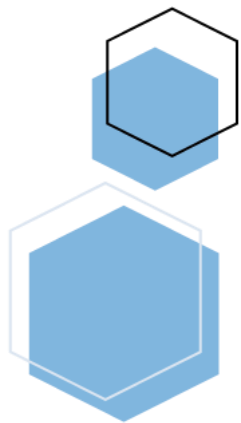
AUTHOR: CHEN CHER AND JIEN YONG



On 14th of July 2020, MAHSA held a Webinar on Facebook focusing on SPM Clinic Series for Biology and Chemistry subject. The speakers were Ms Norlaila Najwa for Biology subject, and Madam Masitah Mat for Chemistry subject. The webinar focused on techniques to answer SPM Paper 2 questions and how to score the question without losing any careless marks. These sessions were designed to help Form 5 students so that they will not fall behind due to school being closed temporarily because of the pandemic. The content they are giving out are specially tailored to the SPM candidates where the speakers gave sample questions from past year SPM papers and addressing them to apply that specific technique being taught at the right question.



The content the speakers delivered to the audience is very impactful as it educates the audience and provide them concrete experience on the paper 2. Besides that, speakers also pointed out common mistakes made by students in paper 2, therefore, giving students a clear view of how they should avoid these mistakes. To make the webinar more engaging to the viewers, a moderator, Mr Alexandar Ray, managed the questions given by the viewers to the speakers and allocate time for them to be answered. If the students would like to know more on the tips and techniques, they can register on our online course on SPM 2020 : Tips and Tactics that will cater to all their needs.



TALKSHOW: HOW INDUSTRIES ENGAGE WITH BASIC SCIENCE

AUTHOR: MADAM NOR DIANA

With the title of “How Industry Engages with Basic Science”, Center for Pre-University Studies (CPU) took part in the Virtual Open Day organized by MAHSA University on 5th July 2020. Represented by Dr Chew Wei-yun, Dr Chan Li-san and Mdm Nor Diana Zulkifli, along with Mdm Siti Azwani as the moderator, the topic was discussed in a casual yet highly informative setting.

“The fruits of fundamental science and technology fill every corner of our lives, and it is important for us to understand how they work.”

Dr Chew Wei-yun talked about the importance of biology as the essence of life. He explained that all branches of biology can be unified within a framework of five basic understandings about living things. Biology is a prerequisite subject to any would-be healthcare and medical workers such as doctor and nurse, amongst others. Learning about the human body's systemic processes and its relations to organ function, neurological system, blood circulation, reproduction and are essential to understand and treat diseases like COVID-19.

Meanwhile, Dr Chan Li-san shared her PhD research experience in plasma physics by explaining how the concept of basic physics are being applied in plasma. Plasma technology is commonly used in many industries, including in the automotive, microelectronics, packaging, and medical devices industries.

The last panelist for the session, Mdm Nor Diana shared her experience teaching foundation students for almost 15 years. Many students are clueless on why they had to excel in physics even when they are aiming for MBBS or Dentistry. The reality is, physics is an essential component in medical industry, of which they are heavily used in X-rays, laser scanner for diagnosis and treatment of diseases, such as MRI and ultrasound. Additionally, she also explained that in the defense industry, physics is applied in the design, production, and even operational devices such as stealth fighter planes and laser guided bombs with high level of accuracy.

Mdm Siti Azwani concluded that the impact of basic science and technology on modern society is broad and wide-ranging, influencing many areas such as politics, diplomacy, defense, the economy, medicine, transportation, agriculture, social capital improvement, and many more. The fruits of fundamental science and technology fill every corner of our lives, and it is important for us to understand how they work. Lastly, she thanked all panelist for the fruitful discussion and hope all viewers enjoy and able to understand the importance of basic science in shaping our world.

UPCOMING ACTIVITIES

MAHSA UNIVERSITY IS COMMITTED TO HAVE MONTHLY ACTIVITIES BASED ON THEME. **COME JOIN US!**

Month	Theme	Organizer
October	International Gastronomy Month	School of Hospitality
November	Empathy Month	School of Business
December	Innovation Month	School of IT

**WRITE US
YOUR
ARTICLES /
OPINIONS /
POEMS**

- ☑ Have opinions or perspectives wants to voice out?
- ☑ Want to write up on some interesting articles?
- ☑ Want to join the fun of creating a puzzle?

NOW YOU CAN!

Send your materials or manuscripts to us!

Email: norlailanajwa@mahsa.edu.my

CENTER FOR PRE UNIVERSITY STUDIES



*Unity Building, Level 6, MAHSA University,
Jalan SP 2, Bandar Saujana Putra,
42610 Jenjarom,
Selangor*



+603 5102 2200 // 1800 88 0300



marketing@mahsa.edu.my

*Our newsletters are published quarterly.

We're on the Web!

Visit us at:

www.mahsa.edu.my

Pre U at:

<https://mahsa.edu.my/faculties/Pre-University/centre-for-pre-university-studies.php>



Scan me