

**PROGRAMME
BOOK**



- **DeA**TM 2018

**THE 4TH INTERNATIONAL INNOVATION,
DESIGN AND ARTICULATION**

24-26 APRIL 2018

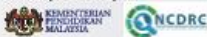
Organized by:
**Research, Industry, Community, Alumni and Entrepreneurship
(RICAEN)
Universiti Teknologi MARA Perlis Branch, Arau Campus
Perlis, Malaysia**

"Empowering Research, Innovation Ideas and Entrepreneurship Towards Sustainable Economy"

Co-organizer:



Smart partnerships:



Sponsors:



Media partner:



Official magazine:



Strategic partners:





Message from the Chief Minister of Perlis

Assalamualaikum Wbt.

It is an honour and privilege for me to welcome all participants, on behalf of the Perlis Government, to the 4th International Innovation, Design and Articulation (i-DeA) 2018 which will be hosted by Universiti Teknologi MARA Perlis, Malaysia.

I am delighted to welcome all the local and international participants to the State of Perlis, Malaysia. In considering that Malaysia would emerge as one of the leading countries in the area of technological innovation and design, the Perlis Government is honored to support and give recognition to efforts made by individuals and institutions either in the public or non-public domains on scientific researches and promoting relevant events.

It is my hope that the 4th i-DeA 2018 will be a platform of benefit as we exchange ideas and new knowledge among the participants as well as building closer networking amongst local and international researchers. I am indeed pleased that UiTM has produced quality researches and winning innovations in the past years and have no doubt that it will continue to produce even more in the years to come.

Thank you and I hope that the 4th i-DeA 2018 will challenge and inspire you, and result in new knowledge, collaborations, and friendships. Enjoy your stay in Perlis and take time to experience fascinating Perlis with its delicious local food and friendly people.

Wassalam and thank you.

YAB. Dato' Seri Azlan Bin Man
Chief Minister of Perlis



Message from the Director General of Education Malaysia

On behalf of the Ministry of Education Malaysia, I am pleased to send my warmest regards to all who gathered at the 4th International Innovation and Articulation (i-DeA) 2018 hosted by Universiti Teknologi MARA, Perlis Branch.

The Ministry of Education Malaysia highly supports this event as it is extremely significant and provides a wonderful opportunity in competition that highlights research products and promotes the culture of research and innovation among participants from local and foreign institutions of higher education.

The 4th i-DeA 2018 creates a linkage between institutions of lower and higher education, agencies and industries to share their products and creative ideas that can be commercialized. This event also provides a platform to produce and stimulate creative talents among potential innovators by organizing related activities during the program.

The 4th i-DeA 2018 has met one of the summary of focus area as stated in the 11th Malaysia Planning (RMK11) Education which is improve the quality of education in enhancing student's outcome and institutional excellent by enhancing the quality of graduates and program and strengthening research in innovation.

I sincerely hope that this event will be an insightful and educational experience for all who attend. On behalf the Ministry of Education Malaysia, again I welcome all participants to the 4th i-DeA 2018 and wish you the very best.

Tan Sri Dr Khair Mohamad Yusof
Director General of Education Malaysia
Ministry of Education Malaysia



Message from the Vice Chancellor of UiTM

I am truly honored and delighted to take this opportunity to welcome delegates from all around the world to the 4th International Innovation, Design and Articulation (i-DeA) 2018, which will be held in UiTM Perlis, Malaysia.

Universiti Teknologi MARA recognises the importance to highlight and promote scientific and technological innovations, designs and conferences in various fields at both national and international level. Therefore, in line with the event's theme "*Empowering Research, Innovation Ideas and Entrepreneurship Towards Sustainable Economy*", the 4th i-DeA offers a platform to share vital and recent research findings and innovations in the science and social science fields. The 4th i-DeA is a continuation of its predecessors in 2013, 2014 and 2016. Hence, it is expected to be able to retain its standard as an excellent avenue for the exchange of creative ideas, knowledge and information among the institutions and individuals.

Our aim is to bring together researchers, professionals and school children in the context of multi and inter-disciplinary field. I do hope that the 4th i-DeA 2018 will be a platform for participants to share their ideas and knowledge, as well as getting in touch with others and explore the potential of collaborations in future research. It is our hope that this event will be a stimulating, engaging and fulfilling experience to all the participants. Thank you for your participation.

Finally, I would like to congratulate all the 4th i-DeA organizing committee for superb effort to come up with these successful events. Hopefully the determination and the perseverance, with the team spirit on display will be continuously applied to ensure success.

YBhg. Profesor Emeritus Dato' Dr Hassan bin Said
Vice Chancellor Universiti Teknologi MARA



Message from the Rector of UiTM Perlis

Assalamualaikum.

A warm welcome to all delegates to i-DeA 2018 organised by the Division of Research, Industrial Linkages, Community & Alumni Network, UiTM Perlis.

Congratulations and a heartfelt thank you to all the committee members of i-DeA 2018 who have spent time and effort to make this event possible.

To the delegates taking part in the exposition, I would like to express my sincere thanks and wish everyone the best in the events that you are involved in. I believe your involvement in the innovation competitions and conferences were triggered off by your realisation of the essential role such events play in this era of emerging economies, convergence of technologies and borderless world. Your participation has marked an indelible contribution to the betterment of human lives. I pray that your endeavour in this event will be fruitful to the nation and that it will continue to flourish in the years to come.

The hosting of this exposition is timely for addressing the lag in numbers and qualities in innovation and research papers. I urge all delegates to grab every single opportunity available here to discuss, explore and comprehend the nature of research. This exposition is definitely one of the apt avenues to express your innovative and creative ideas and launch them to a higher level.

We look forward to welcoming your innovative ideas and hosting you at the i-DeA 2018 in UiTM Perlis. May Allah's blessings be upon us all. Wassalam and thank you.

Ybrs. Tuan Zailuddin Ariffin
Rector
Universiti Teknologi MARA Perlis



Message from the Deputy Rector, Research, Industrial Linkages, Community & Alumni Network, UiTM Perlis

Dear i-DeA 2018 Participants,

On behalf of the organising committee, it is with pride and enthusiasm that I welcome all participants to the 4th International Innovation, Design, and Articulation (i-DeA 2018) in UiTM Perlis, Malaysia. UiTM, together with International Islamic Universiti Malaysia (IIUM), are jointly organizing the 4th i-DeA as an event to discuss the latest in the research and come out with new innovations, design, and products. The gathering of junior and senior researchers of various age groups to share the outcomes of their works for the benefit of our country is the positive sign of continuous effort for future development of new product and innovation. The 4th i-DeA consists of 14 Satellite Events and are divided into 3 main categories, namely: Innovation, Conferences and Exhibition & Competition. These events have received more than 600 participants who are not only from Malaysia but also from Indonesia, Thailand, Pakistan, Nigeria, Kuwait, Arab and Algeria.

I believe i-DeA 2018 acts as a platform for future collaborations and ventures to commercialise present innovations and innovate future technologies among researchers, inventors and industries. UiTM Perlis as the organiser of i-DeA 2018 expresses its readiness to facilitate these essences. On behalf of the organising committee, I would like to thank the organising committees for their hard work, all our sponsors and strategic partners and all those who have helped in one way or another to ensure the success of this significant event.

Thank you

Assoc. Prof. Dr. Mohd Azlan Mohd Ishak

Deputy Rector

Research, Industrial Linkages, Community & Alumni Network Division

ORGANIZING COMMITTEE

PATRON I	YAB DATO' SERI AZLAN BIN MAN
PATRON II	YBHG. PROF EMERITUS DATO' DR HASSAN SAID
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	ASSOC. PROF. DR. NAFISAH OSMAN
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Registration	Dyia Syaleyana Md Shukri
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Registration	Noor Hafizha Muhamad Yusuf
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Logistic, Equipment & Exhibits	Muhammad Faiz Pa'suya
Volunteers & Transportation	Mohd Adhar Abd Samad

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Judge, Jury & Audit	Nurul Farahin Mhd Nasir
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Gifts, Certificate & Souvenirs	Asnida Yanti Ani
Reception	Anisah Rafidah Ahmad
Publication	Rosmawati Abdul Aziz
Publication	Salamiah Zakaria
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Main Director (Exhibition)	Ros Syamsul Hamid
Main Director (Laser Tag)	Ellail Ain Mohd Aznan
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Promotion & Activity	Nurul Hidayah Amir
Promotion & Activity	Muhamad Arif Hashim
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Sponsorship	Mohd Faris Mohd Fuzi
Sponsorship	Ahmad Fikri Haji Mohd Kassim
Registration	Eliy Nazira Mat Nazir
Registration	Nur Khairani Kamarudin
Registration	Zulkifli Ismail
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Corporate & Protocol	Noorfaizalfarid Mohd Noor
Corporate & Protocol	Siti Hannariah Mansor
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Logistic, Equipment & Exhibition	Mohd Azizi Abdullah
Logistic, Equipment & Exhibition	Mohd Khairulanwar Md Yusof
Volunteer & Transportation	Iman Haswam Abd. Halim
Volunteer & Transportation	Rosawanis Rosli

Volunteer & Transportation	Jamilah Ahmad Radzi
Judge, Jury & Audit	Romiza Md Nor
Judge, Jury & Audit	Masshera Jamaludin
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CHAIRMAN OF THE CONFERENCE	DR. ABD. MUTALIB MD. JANI
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Conference Main Director (ISSC-ITU)	Dr. Azhar Abdul Rahman AP Dr. Raudlotul Firdaus Fatah Yasin (IIUM)
Conference Main Director (ISTEC-Material Chemistry)	Dr. Jeyashelly a/p Andas
Conference Main Director (ISTEC-Computer Science & Technology)	Dr. Aznoora Osman
Secretary of the Conference	Syarifah Nafisah Syed Ismail
Treasurer of the Conference	AP Junaini Arus
Main Director of Information	Alif Faisal Ibrahim
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Promotion	Khairul Naim Abdul Aziz
Promotion	Dr. Nadia Abdul Wahab
Sponsorship	Noor Azura Zainuddin
Sponsorship	Syarifah Nursyimi Azlina Syed Ismail
Sponsorship	Rashidah Ramle
Registration	Sharipah Isa
Registration	Nur Raihan Mohamed
Registration	Norhashimah Abdul Rahman
Registration	Muhammad Ramadhan (IIUM)
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Corporate & Protocol	Abdul Hapes Mohammed
Corporate & Protocol	Badrul Shahri Basri (IIUM)
Logistic	Mohd Daud Ahmad
Logistic	Muhamad Naiman Sarip
Logistic	Badrul Hisham Ahmad
Certificate & Souvenirs	Jamalia Aurani
Certificate & Souvenirs	Helyati Abu Hassan Shaari

Certificate & Souvenirs	Nora Yanti Che Jan
Certificate & Souvenirs	Suhairiza Deris (IIUM)
Publication	Noraini Ismail
Publication	Dr. Ramani a/l Mayappan
Publication	Mohd Nizam Osman
Publication	Shahrul Hisham Idzahar (IIUM)
Facilities	Edros Mustakin (IIUM)
Facilities	Mohd Zaki Abdul Ghani (IIUM)
CHAIRMAN OF MANAGEMENT	ROHAIZA MOHAMAD
Main Director (Dinner)	Nor Mazlina Abdul Wahab
Main Director (Corporate & Protocol)	Nor Azira Irma Muhammad
Main Director (Transportation & Logistic)	Mohd Syamaizar Mustafa
Main Director (Health, Safety & Emergency)	Dr. Rosmawati Abd. Wahab
Main Director (Gift, Certificate & Souvenirs)	Azliana Ramli
CHAIRMAN OF TECHNICAL	DR. SITI ZULAIHA AHMAD DR. WAN IZHAN NAWAWI WAN ISMAIL
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Main Director (Special Duty)	Dr. Ang Lee Sin
Main Director (Judge, Jury & Auditing)	Hawa Mohd Ekhsan
Main Director (Registration)	Mohammad Hafiz Ismail
Main Director (Publication)	Dr. Rizana Yusof
Secreteriat	Rohana Baharom Asri Ab Rahim Arina Abd. Rahman Fadlia Afida Ghazali Zurita Jaafar Mohammad Nadzri Suboh Zainon Shaari

ABOUT i-IDEA™ 2018

With the success of i-IDEA™ 2013, 2014 and 2016, UiTM Perlis is organizing The 4th International Innovation, Design and Articulation, i-IDEA™ 2018 with the theme “Empowering Research, Innovation Ideas and Entrepreneurship Towards Sustainable Economy”.

i-IDEA™ 2018 is an international competition that highlights innovative products and creative ideas. It promotes the culture of research, innovation and entrepreneurship among the participants locally and abroad. The competition is a link between inventors, researchers and industries to share their products and creative ideas that can be commercialized.

The program has the following objectives:

- To showcase innovation, invention and designs which are produced and created by local and foreign academicians and non-academicians, agencies, students from lower to higher education.
- To create a platform for research groups among local and foreign academician and non-academicians in commercializing their innovations and ideas.
- To steer innovative culture through research and at the same time create research awareness among the experts particularly the UiTM Perlis community.
- To realize and develop cooperation among participants in the commercialization of the ideas.
- To produce and stimulate creative talents among potential innovators by organizing related activities during the program.

Theme

*“Empowering Research, Innovation Ideas and
Entrepreneurship Towards Sustainable Economy”*

ABOUT i-IDEA™ LOGO



The Logo

The word i-IDEA™ is an acronym for The International Innovation, Design and Articulation. The i-IDEA™ logo was designed by corporate unit, UiTM (Perlis) and introduced in 2013 based on the word of 'idea'. The logo consists of a globe embedded with the word 'i' and was intended to symbolize event's reputation for high quality, standards and internationally, and this makes it a very valuable asset, which requires protection. It also illustrates the event's global objectives.

The green colour was used for the globe so as to imply the growth, freshness, uniqueness and generating of the new ideas that can drive innovation. The color blue is chosen for idealistic and commonly associated with harmony, the ability to think differently and spark creativity within teams participating to this event. It also inspires higher ideals. Blue's wisdom comes from its higher level of intelligence, a spiritual perspective.

Trademark

Universiti Teknologi MARA, Perlis has trademarked the i-IDEA™ logo. The version of logo available here include the ™ mark. As a valuable asset the Logo is not entitled to use without the prior written permission of the University.

If you have any questions regarding the use of the logo, please communicate with our corporate team for a help.

EVENTS i-DeA™ 2018

CATEGORY I (INNOVATION)



Event A Professional Inventors
(Researchers, Lecturers,
Industries)

Event B Novice Inventors
(Researchers, Lecturers,
Industries)

Event C Students (Public/Private
Institute Higher Learning
Institutions)



Event D Primary/ Secondary
School Innovation

Event E Kindergarten Innovation

Event F Community Innovation



Event G Secondary School

Event H University/College
Student

CATEGORY II (CONFERENCES)



Event I

International Sciences, Technology & Engineering Conference (ISTEC):
Material Chemistry



Event J

International Sciences, Technology & Engineering Conference (ISTEC):
Computer Science & Technology



Event K

International Social Science Conference (ISSC): Islamic Thought and Understanding

CATEGORY III (EXHIBITION AND COMPETITION)



Event L
Multimedia Innovation
Competition



Event M
Idea Fest



Event N
Aim & Attack

CROWN 2018 UITM PERLIS

EVENT	Day 1 (24th April 2018, Tuesday) – Dewan Cengal	
	11.00 am - 01.00 pm	<ul style="list-style-type: none"> • Registration (For Satellite Event A, B & C) • Booth Preparation for the Morning Session (Satellite Event A & B)
	01.00 pm - 03.00 pm	Break for Lunch and Rest
	03.00 pm - 05.00 pm	<ul style="list-style-type: none"> • Registration (For Satellite Event A, B & C) • Booth Preparation for the Morning Session (Satellite Event A & B)
Day 2 (25th April 2018, Wednesday) – Dewan Cengal		
A	09.00 am – 05.00 pm	Competition and Judging Session for Satellite Event A
	09.00 am – 12.00 noon	Competition and Judging Session for Satellite Event B
	01.00 pm – 02.00 pm	Rest /Lunch Break /Booth Preparation for Satellite Event C
B		Keynote Talk Session <i>Innovation Talk with i-IDeA 2018</i>
C		Venue: Lecture Theatre 4 (LT4), UiTM Perlis Branch
	02.15 pm – 03.30 pm	Keynote Speaker: Prof. Dr. Ku Halim Ku Hamid Faculty of Chemical Engineering Universiti Teknologi MARA (UiTM) <i>Title: Innovation & Product Development</i>
		Asst. Prof. Dr. Rizal Mohd Nor Kulliyah of Information & Communication Technology, International Islamic University Malaysia (IIUM) <i>Title: Blockchain Technology Innovations</i>
	02.00 pm – 05.00 pm	Competition and Judging Session for Satellite Event C
Day 3 (26th April 2018, Thursday)- Dewan Seri Semarak		
	09.30 am – 12.00 noon	Closing Ceremony & Result Announcement

CRYSTAL 2018 UiTM PERLIS

Day 1 (24th April 2018, Tuesday) - Dewan Cengal

EVENT

	10.00 am - 05.00 pm	Registration
D	02.00 pm - 05.00 pm	Preparation of Exhibition Board (Satellite Event D, E & F)

Day 2 (25th April 2018, Wednesday)

E

	09.00 am - 12.00 noon	Competition and Judging session for Satellite Event D, E & F
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F

	12.00 noon - 02.00 pm	Lunch Break
	4.00 pm - 05.00 pm	Award giving ceremony

ComiiC 2018 UiTM PERLIS

25th April 2018, Wednesday – Lecture Theatre 4 & 5 (LT4 & LT 5), UiTM Perlis

EVENT

	08.15 am	Registration
	08.45 am	Briefing (Judge & Participant)
G	09:00 am – 12:30 noon	Competition & Judgement
	12:30 noon – 14:00 pm	Break / Lunch
H	14:00 pm -15:30 pm	Competition & Judgement
	16:00 pm	Arrival of VVIP
	16:05 pm	Speech of VVIP
	16:15 pm	Prize Giving Ceremony
	17:30 pm	End of Event

CONFERENCE

EVENT

I

17th – 18th April 2018
HOTEL ROYAL, PENANG

J

18th April 2018
HOTEL ROYAL, PENANG

K

1st -3rd May 2018
ADYA HOTEL, LANGKAWI ISLAND

EXHIBITION & COMPETITION

EVENT

L

24th -26th April 2018
- G207, Bahagian Penyelidikan Dan Jaringan Industri (PJI)
UiTM Perlis

M

24th -26th April 2018 - Dewan Cengal & Anjung Siswa UiTM Perlis

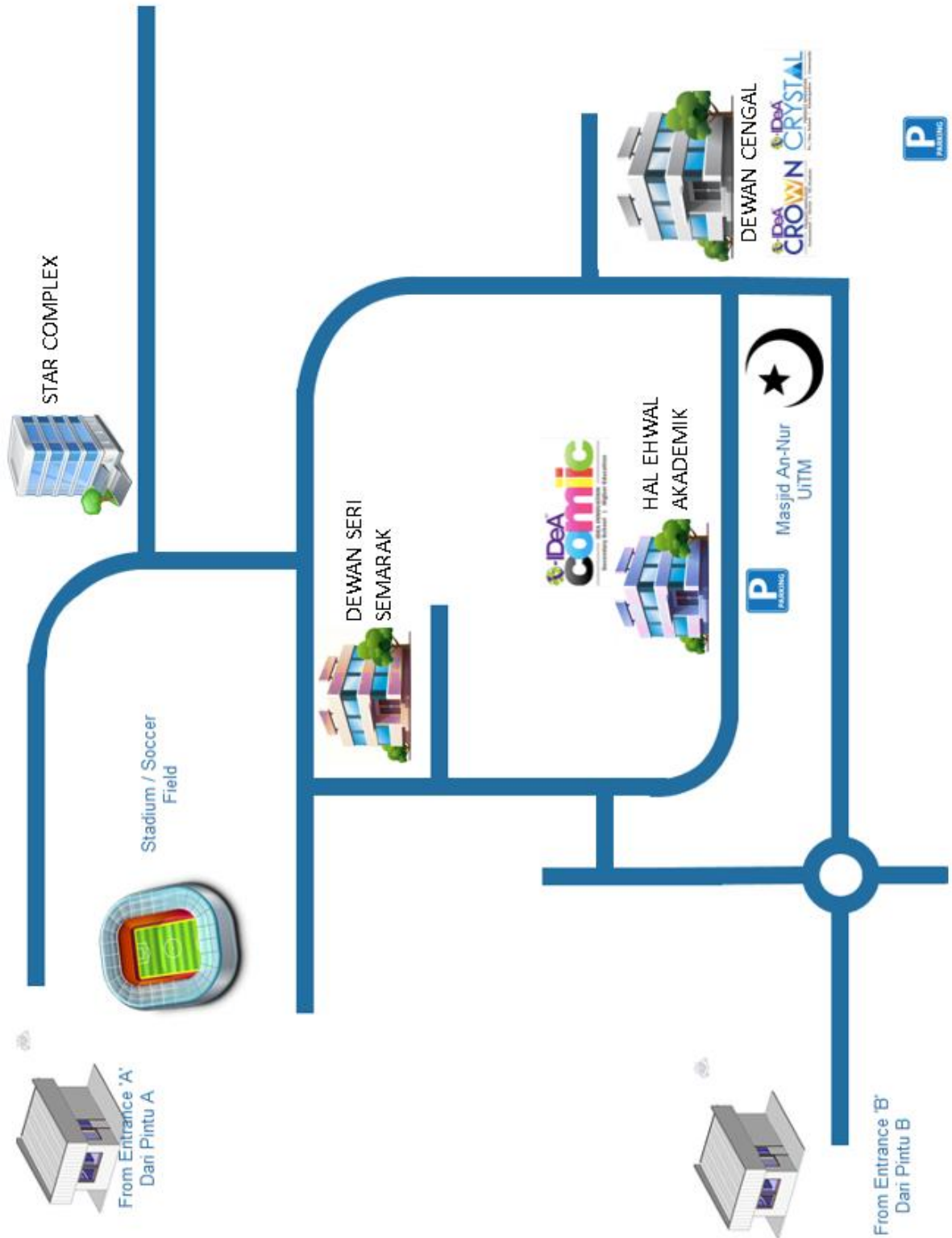
09:00 am -11:00
Fashion Festival, Food, Outfit, Fun and academic, Collection of
Industry's Biggest name

N

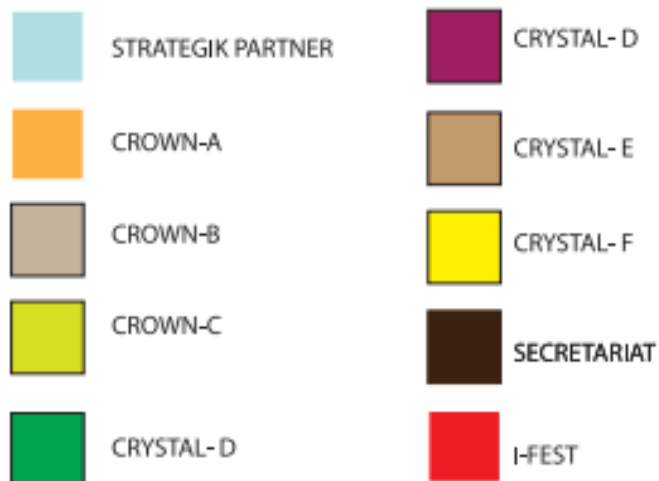
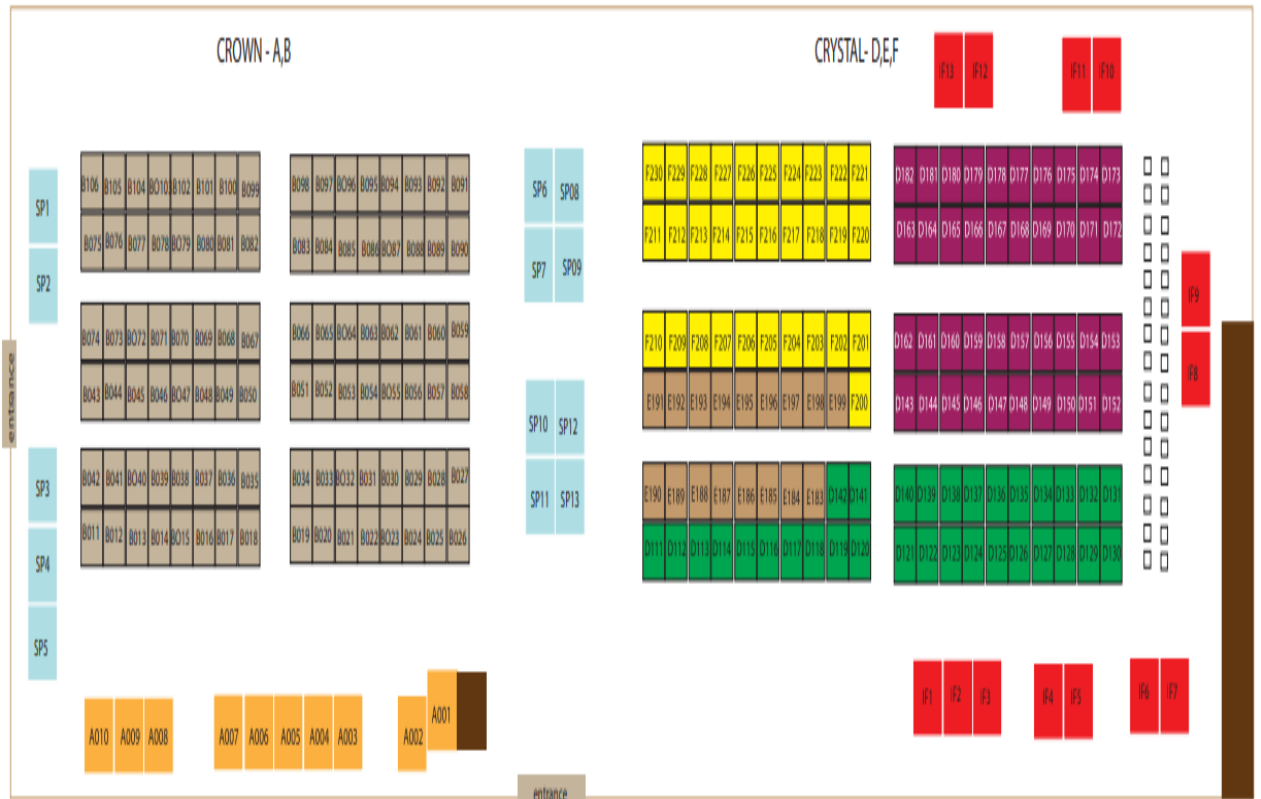
**21st April 2018, Saturday - Tuanku Syed Faizuddin Putra Sports
Complex, Uitm Perlis**

07.00 am – 05.00
Competition

UITM PERLIS MAP



LAYOUTS OF DEWAN CENGAL, UITM PERLIS EVENT A, B, D, E, F & M



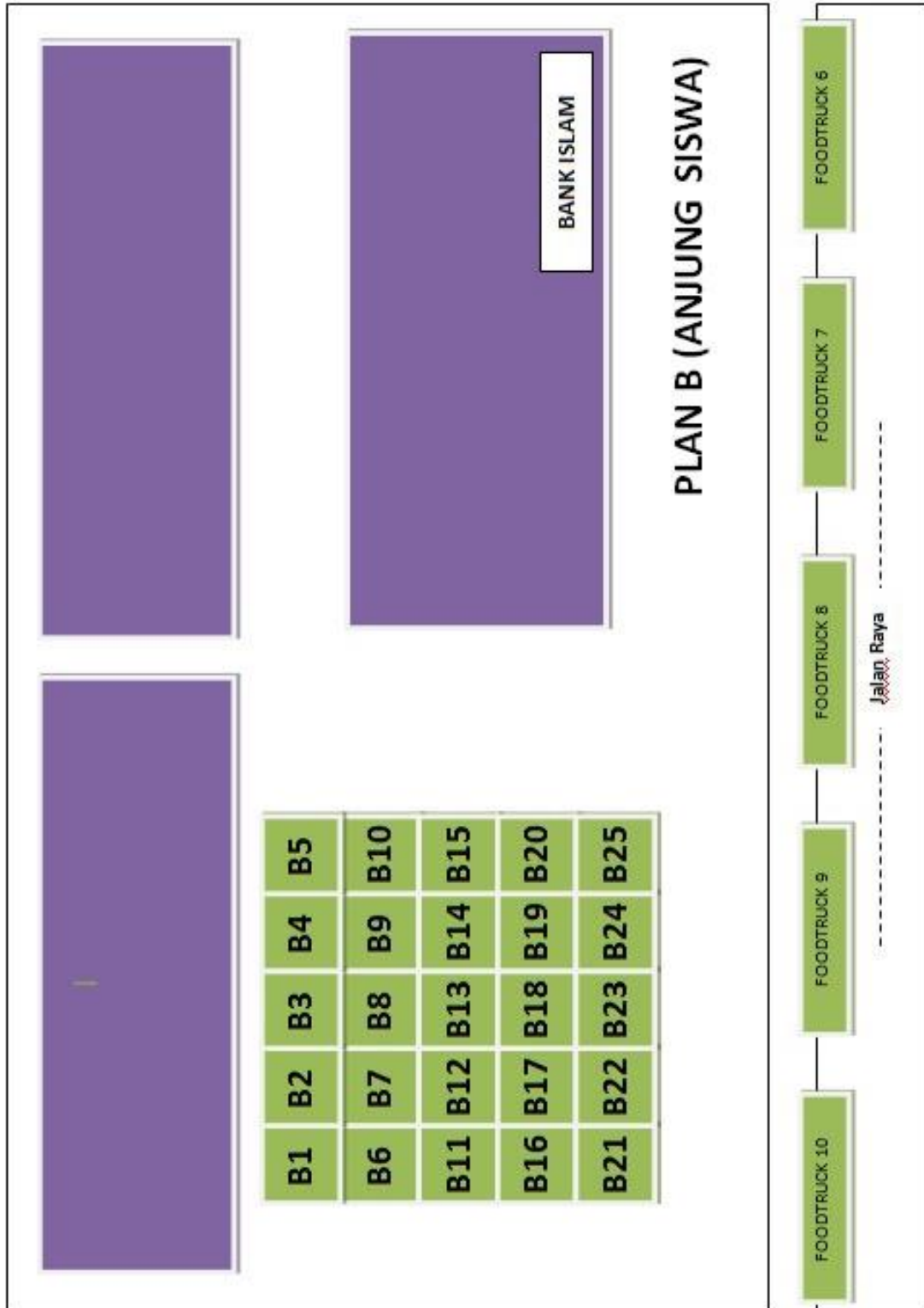
LAYOUTS OF DEWAN CENGAL, UITM PERLIS EVENT C



NUMBER FOR STRATEGIC PARTNERSHIP/ SPONSORSHIP

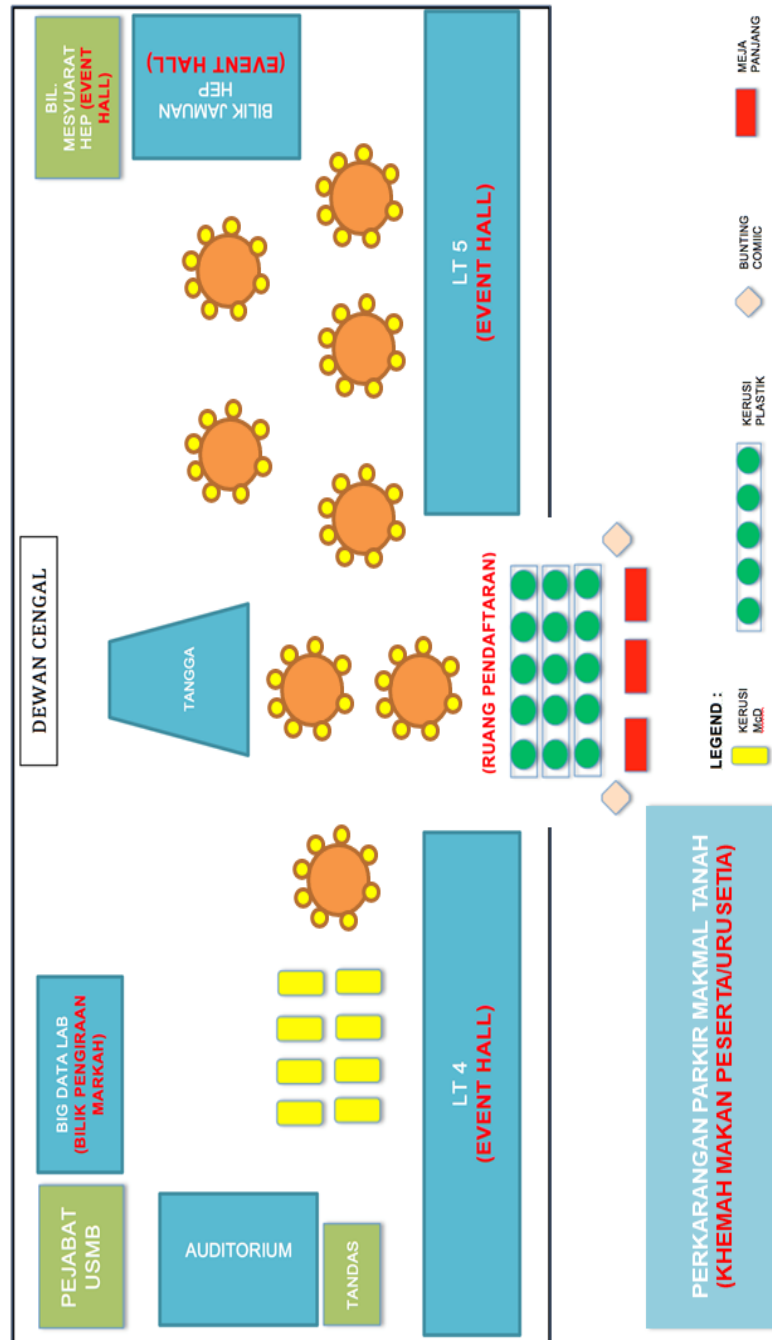
Booth	Name
SP1	UTP
SP2	MASS
SP3	MAHE
SP4	FKE UTHM
SP5	KICT UIA
SP6	UUM SoC
SP7	NCDRC UPSI
SP8	UIN
SP9	UIR
SP10	NAv6 USM
SP11	ADTEC Taiping
SP12	PTPM USM
SP13	Persatuan Kedoktoran Teknikal Malaysia

LAYOUT OF ANJUNG SISWA, UITM PERLIS Event M



LAYOUTS OF CORRIDOR LT4 AND LT5, UITM PERLIS Event G, H

PERKARANGAN LT 4, 5



CATEGORY I (INNOVATION)

LIST OF PARTICIPANTS FOR SATELLITE EVENT A, B, C

EVENT A (PROFESSIONAL INVENTORS)

A064. MONITORING ILLUMINATION LEVEL USING LIGHT Q SYSTEM

Nurulzatushima Abdul Karim, Adhilla Ainun Musir, Nor Hafizah Hanis Abdullah, Adi Izhar Che Ani and Aniza Albar

A100. COLD-FORMED OIL PALM OSB STEEL SECTION

Mohd Syahrul Hisyam Mohd Sani, Fadhluhartini Muftah, Ahmad Rasidi Osman and Haslin Idayu Amaruddin

A134. USE OF EGG SHELLS AND CHITOSAN FILLERS TO IMPROVE CORN STARCH BASED BIO-PLASTIC

Norhafezah Kasmuri, Mohamad Hakimi Maidin, Muhammad Safwan Abu Zait, Nur Aliah Ahmad Tarmizi and Megawati Omar

A143. UNCERTAIN VISCOELASTIC MODELS WITH FRACTIONAL ORDER: STUDY THE NUMERICAL SIMULATIONS OF THE SOLUTION

Ali Ahmadian, Norazak Senu, Fudziah Ismail and Soheil Salahshour

A180. UreiT MORTAR

Muhammad Isha Ismail, Mohd Syahrul Hisyam Mohd Sani, Fadhluhartini Muftah and Siti Suhaila Harith

A186. STATISTICAL-GEOVISUALISATION FUSION: FOR A HOLISTIC COCOA PRECISION MANAGEMENT

Saripah Bakar, Nor Aizam Adnan and Haya Ramba

A193. DIFFERENT TYPES OF CARBON NANOMATERIALS AS HIGHLY EFFICIENT SORBENTS FOR MICROEXTRACTION OF DIFFERENT TYPES OF POLLUTIONS FROM WATER SAMPLES

Ferial Ghaemi, Luqman Chuah Abdullah and Amirhassan Amiri

A196. SCALWHITE: NATURAL TOOTH PASTE FROM FISH SCALES

İsmail Zainol, Azhari Md Zain and Che Nor Aiza Jaafar

A197. RELIABLE FAULT TOLERANT BRIDGELESS BOOST RECTIFIER POWER SUPPLY (RFT)

Khairul Safuan Bin Muhammad, Rahimi Bin Baharom and Mohammad Nawawi Bin Seroji

A215. V.A. VITAL ASSISTANCE MULTI-FUNCTIONAL SPORT CASUAL GARMENT

Zolina Mohamad, Norzaleha Zainun, Nur Farhana Kadir, Maziah Ab Rashid and Shahrizad Fitri Mustapha

A243. N-CODE – OCEAN ENERGY HARVESTING SYSTEM FOR POWER GENERATION

Icahri Chatta, Noor Azme Omar, Safarudin Salehuddin, Mohd Baharum Muhamad Din, Suriani Othman, Fardzir Johari, Rosezariman Ismail@Abdullah, Jegajeevan Naidu A/L Balasundram, Hafizul Husni Mohamed Sidin and Mohammad Faridzul Ab Aziz.

EVENT B (NOVICE INVENTORS)

B010. AUTOMATED MALAISE TRAP MONITORING SYSTEM

Iman Hazwam Bin Abd. Halim, Nur Khairani Binti Kamarudin, Mohammad Hafiz Bin Ismail, Mohd. Faris Bin Mohd. Fuzi and Dr. Shukor Sanim Bin Mohd. Fauzi

B012. SIS OIL – SACHA INCHI OIL-BASED SERUM FOR SKIN CARE

Hamidah Jaafar Sidek, Noor Azura Zainuddin and Mohamad Azhar Azman

B021. OUTCOME BASED EDUCATION (OBE) MEASUREMENT AND PERFORMANCE ANALYSIS TOOLS DEVELOPMENT (OMASD)

Mohd Affandi Shafie, Mohaiyedin Bin Idris, Mohammad Nizam Ibrahim, Noor Azila Ismail and Zakaria Bin Hussain

B029. GP RICE

Shamsul Muhamad and Siti Fatimah Zahrah Mat Ali

B037. INDUSTRIALISED BUILDING SYSTEM (IBS): ORGANIC BAMBOO TILE

U.Kassim, M.Z Nurul Najihah, C.H Nur Aisyah and D.Hazry

B042. OTEL2GO

Faizal Ayob and Norashikin Ariff

B044. STUDY USAHAWANRIA BOARD GAME AS EFFECTIVENESS TOOL IN ENTERPRENEURSHIP COURSE

Hasyireen binti Abdul Halim, Erita Mazwin binti Mazlan and Faridah binti Che In

B045. BREAK & PROTECT 2 (A DEVICE FOR TRAPPING MARINE LEECH PARASITE *Zeylanicobdella Arugamensis* IN CULTURED FISH)

Kua Beng Chu and Nur Ashikin Arbi

B047. MODIFIED BITUMINOUS MIXTURE FOR ROAD PAVEMENT USING POLYETHYLENE

Nor Izzah Zainuddin, Shahreena Melati Rhasbudin Shah, Nuraini Tuttur, Roziah Keria and Tey Li Sian

B050. DEADLINE: THE HORROR OF DESIGN STUDENTS

Shah Al Zefflee bin Rosli, Ng Yen Peng, MD Yuzainis MD Yusof, Wan Shahrul Anwar Wan Endut Hazim Sharudin, N. I. Ismail, Mohd Fahmi Md Salleh, M. Ridzuan Arifin and Hazimi Ismail

B051. IMPROVEMENT IN ENGINE CHARACTERISTICS USING ALCOHOL FUELS ADDITIVE IN GASOLINE FUELLED ENGINE

Hazim Sharudin, N. I. Ismail, Mohd Fahmi Md Salleh, M. Ridzuan Arifin and Hazimi Ismail

B052. LOW PERMEABILITY AND HIGH STRENGTH OF N-BPW LINER AS ALTERNATIVE LANDFILL LINER MATERIAL

Nur Azwa Muhamad Bashar, Dr. Salina Alias, Nur Fathiah Mohamad, Dr. Tay Chia Chay and Prof. Ir. Sr. Dr. Suhaimi Abdul Talib

B053. THINKING HATS: MEMBANTU MURID TAHUN TIGA MENGENALI EMOSI MELALUI KAUNSELING KELOMPOK

Suzana Binti Sanusi, Ng Chia Yin, Rosli bin Abdul Wahab, Tn Hj Shuib Bin Hamid and Laila Kasma Binti Haji Hussain

B057. GRAPHICAL USER INTERFACE (GUI) FOR ELECTRICAL MACHINES SUBJECT FOR EXPERIENTIAL LEARNING

Atiqah Hamizah Mohd Nordin, Rijalul Fahmi Mustapa, Norlee Husnafa Ahmad, Mohd Ezwan Mahadan and Aznilinda Zainuddin

B068. SMART DIGITAL BRIEFCASE

Kherul Jefri Bin Jamen, Mohd Latifi Bin Abdul Ghani, Mohd Farizuddin Bin Senapi, Khairi Bin Mat Daud and Farahiyah Binti Mohamed Omar

B075. AURA-CHEMBOARD KIT

Choo Sze Yee, Nor Hamizah binti Ishak, Siti Zahirah binti Nordin, Khor Hoe Hong and Nurul Faizee binti Pardin

B077. MY-ELECTROLEARN

Faizah Abu Bakar, Aimi Baiduri Shamsudin, Siti Mariam Ghazali, Siti Marini Ismail and Zurina Johari

B079. SISTEM PERPARITAN DI KAWASAN KELANG LAMA KURANG EFISIEN DI DAERAH KULIM, KEDAH

Ir. Muhamad Tarmymy Bin Che Ani, Farah Izah Binti Abu Hassan, Muhammad Rezuwan Bin Abu Samah, Mohd Hairis Bin Mohd Haider, Md Razif Bin Mohamad, Firdaus Bin Mat Said, Mohd Safuan Bin Abdul Majid, Azami Bin Kassim dan Cik Wan Nur'Aini Binti Wan Abdul Halim

B082. VEHICLE INTELLIGENT PARKING SYSTEM

Ezri Mohd, Norasiah Osman and Noorsaliza Abdullah

B086. RaSCA CALCULATOR FOR RAIL INFRASTRUCTURE PROJECT IN MALAYSIA

Izatul Farrita Mohd Kamar, Asmalia Che Ahmad, Mohamad Mohd Derus, Mohd Yusof Kasiron and Mohd Afandi Abu Bakar

B087. NA BATTERY FOR FUTURE (IONIC LIQUID POLYMER ELECTROLYTE)

Mohd Azri Bin Ab Rani, Rika Hagiwara and Kazuhiko Matsumoto

B089. IPOMOEA CRUNCHY CRUNCH CEREAL

Nurul Fardila Abd Razak, Nurashikin A Ridzuan, Siti 'Atikah Rusli, Derweanna Bah Simpong and Harnidah Samengon

B091. InTec1.0

Nur Lina Abdullah, Norul Fadhilah Ismail, Zahari Md Rodzi and Amalia Qistina Abdullah

B093. ARDUINO TRAINER HARDWARE (ARTWARE)

Muhammad Hafif Abd Hamid and Hasrulnizam Hashim

B094. 3D INTERACTIVE MAP USING DEM EXTRACTION FROM UAV IMAGERY OF UITM PERLIS.

Sharifah Norashikin Bohari, Ain Uzzairah Amran, Mohamad Faris Jamain, Muhammad Hafizi and Muhammad Haziq Muzaini

B103. MyHSTB MANUAL FOR HEALTH SYSTEM APPRAISAL OF TUBERCULOSIS MANAGEMENT

Nurhuda Ismail, Mariam Mohamad, Faridah Kusnin, Jiloris Frederick Dony and Abdul Razak Mutaliff

B104. VOICE BASED APPLICATION SYSTEM TO LEARN RECITING AL-QURAN FOR AUTISM CHILDREN (VB-QURAN-AUT)

Nurulisma Ismail and Mohammad Aliff Hatim Norazam

B109. ASTRONOMYKIT : EXPLORING THE UNIVERSE

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B110. HIGH PERFORMANCE SPORE INDUCTION LIQUID SPAWN OF GREY OYSTER MUSHROOM

Zarina Zakaria, Nur Zatul 'Iffah Zakaria, Low Jia Zhen and Chong Shi Fern

B116. SMART DISABLE PARKING SYSTEM USING WELCOMING AND REMINDING ALERT VOICE

Ong Boo Siong, Professor Dr Naresh Kumar, Khamisah Binti Abd Manaf and Nur Hazelen Mat Rusok

B120. SPEEDAR: ARITHMETIC DRILL VIA RACING GAME

Nurul Hidayah Mat Zain, Razuan Harmy Bin Johar, Aslina Baharum, Ismassabah Ismail, Siti Rahayu Abdul Aziz, Anita Mohd Yasin and Azlan Abdul Aziz

B121. REAL-TIME FLOOD MONITORING SYSTEM USING WSN AND IOT

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B122. ASSETS INFORMATION SYSTEM (AIS)

Mohd Sanusi Deraman, Mazeree Mohd Nawawi, Khairul Anuar Abdullah, Ahmad Muzri Mohammad Najib and Hafizah Abdul Rahim

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B131. SOLAR CHARGING HUB

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B135. A METHODOLOGICAL GUIDE IN SETTING UP AN AIRPORT RETAIL BUSINESS

Siti Zaleha Sahak, Rosmimah Mohd Roslin and Norashikin Hussein

B136. POPEEL LOOSE POWDER

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Mohd Shahir Yahya, Musli Mohammad and Badrul Omar

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B141. E-NAII RED: ANTIBACTERIAL AND ANTIFUNGAL HENNA

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B142. MICROSCALE CHEMISTRY KIT

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B144. GREEN CONCRETE CONTAINING RICE HUSK ASH AND SEWAGE SLUDGE ASH

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B145. SEASONAL OCEAN SURFACE CIRCULATION IN STRAITS OF MALACCA USING SATELLITE ALTIMETER AND LOW COST GPS-TRACKED DRIFTING BUOYS

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B148. ODORATA BODY SCRUB (SKRUB BADAN DAUN KAPAL TERBANG)

Ummi Kalsom binti Ab Hamid, Nurbaiti binti Mahran, Mohd Huzaimi Bin Md. Zuki and Rehan bt Berhanudin

B149. MALAYSIAPEDIA

Irwana Nooridayu Muhamad Hakimi, Noorlailahusna Mohd Yusof, Noorayuni Rusli, Hafizah Hammad Ahmad Khan and Syahrini Shawalludin

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B156. THE DEVELOPMENT OF MOBILE APPLICATION FOR UNDERGRADUATE DISSERTATION: 'MYDISSERTPLANNER'

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B157. OH! MY HAND: GAME-BASED CLINICAL ASSESSMENT TO ASSES MOTOR-IMPAIRED USERS (WRIST/HAND)

Nurul Hidayah Mat Zain, Hazrati Zaini, Mohd Nabil Zulhemay, Aslina Baharum and Fariza Hanis Abdul Razak

B165. ECO PERFORMANCE ENHANCER

Nor Aniswati Awang lah, Abdul Hadi Yunus, Siti Ruzimah Kamaruddin, Mohd Hairie Mohd Nashoha and Muhammad Khairuddin Ramli

B171. SMART WATCH AL –QURAN READING FOR SOLAH (SWARS)

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B173. REFRIGERATION CYCLE TRAINING KIT

Syahrizat Bin Azizan and Khazaimi Bin Halim @ Khalid, Muhammad Mursyid Bin Ismail and Muhamad Alif Bin Halim

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B179. FULLY AUTOMATED SECURE EXAM PAPER MANAGEMENT ONLINE SYSTEM

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B183. FABRICATION OF NH₂-MIL-53(AI)/CELLULOSE ACETATE (CA) MIXED MATRIX MEMBRANES IN CO₂ SEPARATION FROM N₂ AND CH₄.

Muhammad Mubashir and Yeong Ying Fong

B184. INNOHOME

Rohayu Daud, Razanif Razak, Muhammad Ameer Hamzah Mohd Rani, Yasmin Zulkefli and Wan Azrina Nadhirah Wan Abdullah

B185. INNOKIOSK4

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B189. 3D VISUAL MODEL FOR BUILDING QUANTITIES TAKE-OFF (3D-ViMo)

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B190. DEVELOPMENT OF AN INTEGRATIVE GOVERNANCE FRAMEWORK FOR STAKEHOLDER MANAGEMENT IN MARINE SPACE ADMINISTRATION

Abdullah Hisam Bin Omar, Nazirah Binti Mohamad Abdullah and Muhammad Hafiz Bin Mohd Yatim

B201. THE INSTRUCTIONAL DESIGN OF *Le SWinG* BEGINNER

Mohammad Shah Kamarulzaman, Noor Aida Mahmor and Siti Nazuar Sailin

B203. 3D ANIMATION WORKSHOP: THE IMPLEMENTATION OF 3D PRINTING IN EDUCATION

Aimi Nabila Anizaim, Nelysa Nurshafira Mohd Roslan and Asrul Hafiz Huliman Hami Ahmad

B205. SEJAHTERA LESTARI: A MOBILE HEALTH APPLICATION FOR VISUAL IMPAIRED INDIVIDUAL

Mariam Mohamad, Wan Ahmad Jaafar Wan Yahaya and Normala Abdul Wahid

B206. FRONT OFFICE SIMULATION TASKS (FOSTs)

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B209. NATURAL COCONUT COIR FIBER AND EGG CARTONS AS A POTENTIAL NOISE REDUCER

Nur Shafieza Azizan, Juliana Idrus, Zuraisah Dollah, Amalina Amirah Abu Bakar and Nor Azliza Akbar

B214. THE PROSPECT OF RAP AND SHELL WASTE AS SUBBASE MATERIAL

Juliana Idrus, Nurjuhanah Juhari, Masyitah Md Nujid, Nur Shafieza Azizan and Khairul Afinawati Hashim¹

B217. MULTIPLE EMBEDDED OF WARNING SYSTEM (MEOWS)

Abdul Haris Khairi Hamid, Syahrrial Nureddin Kuswadi Mohd Naim and Zairul Nizam Zainul

B218. PREDICTION OF *Sitophilusoryzae orizae* GENDER USING LOGISTIC REGRESSION MODEL

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B222. BASIC TAX STARTER (BTS) MOBILE APPLICATION

Noor Hafizha Muhamad Yusuf, Rozihanimeh Shekh Zain, Noor Sharida Badri Shah, Norhisam Bulot, Muhammad Hafiz Ismail, Abdul Hafiz Yusof and Noor Azillah Mohamad Ali

B223. INNOVATIVE MODEL FOR NEW B2F E-COMMERCE USING 3RD PARTY FORWARDER FOR ASIAN MARKETPLACE

Wan Mohd Safwan Wan Daud, Rosyazalina Mohamed Khalid, Mohd Faizan Ismail, Ahmad Janaidi Abd Ghani and Wan Naimah Wan Daud

B224. NEW ACTION FRAMEWORK FOR VEHICULAR EMISSION PRICING ON INTELLIGENT TRANSPORT SYSTEM FOR LOW CARBON SOCIETY

Wan Mohd Safwan Wan Daud, Razman Hafiji Redzuan, Muhammad Ashlyzan B Razik, Zuraimi Bin Abdul Aziz and Muhammad Zaly Shah Muhammad Hussein

B227. WO-OF BAG

Annafatmawaty Ismail, Marliana Jamaluddin, Norlinda Mokhtar and Mariam Samsudin

B232. A NEW DOUBLE NEGATIVE METAMATERIAL DESIGN FOR ELECTROMAGNETIC ABSORPTION REDUCTION IN HUMAN HEAD

Mohammad Rashed Iqbal Faruque, Sharifa Mastura Syed Abdullah, Mohammad Tariqul Islam and Mardina Abdullah¹

B234. TOWARDS DEVELOPING WAQF PROPERTY INNOVATIVE UTILISATION FRAMEWORK

Hasyeilla Abd Mutalib, Selamah Maamor, Suraiya Hashim, Norazlina Abd Wahab and Zairy Zainol

B239. 21st CENTURY VIRTUAL LEARNING MODEL

Mohd Paris Saleh, Faridah Abdullah, Nil Farakh Sulaiman, Rusmanizah Ustati and Zawiyah Baharom

B242. PHYSICAL MULTIMEDIA LEARNING SYSTEM IN COOKING FOR PRESCHOOLERS

Kien Tsong Chau, Zarina Samsudin and Wan Ahmad Jaafar Wan Yahaya

B245. PERSUASIVE MULTIMEDIA APPLICATION ON THE TOPIC OF ISLAMIC FUNERAL (APM-PJ)

Wan Ahmad Jaafar Wan Yahaya and Khairulnisak Mohamad Zaini

B246. FETOACT: FETAL MOVEMENT SENSING DEVICE

Rania Hussein Al-Ashwal, Amirul Ridhwan Bin Sazali and Siti Syuhadah Binti Sidek

B248. IMPLEMENTATION OF MONITORING STUDENTS' ACADEMIC PROGRESS SYSTEM

Manisah Mohd Shah, Haliza Hamzah, Joy Nesamalar Samuel Hilezan Zainal and Mahamsiatu Kamaruddin

B251. MIMI LIAU SCALE KIT

Liau Swee Foong, Kamsiah Omar, Zawiah Bahrom and Sahrul Nizam Salim

B252. INTERACTIVE FARAID INFORMATION SYSTEMS

Siti Fatimah Abdul Rahman, Abdul Malek Yaakob, Muhammad Firdaus Shaban and Ahmad Adnan Fadzil

B254. EFFECTS OF TORREFACTION ON THE BIO-COAL PROPERTIES OF RICE HUSK: AN AGRO-PROCESSING WASTES

Farhana Othman, Siti Umairah Mohd Hudzori and Asnida Yanti Ani

B255. MODELLING OF NORTHERN GEOID MODEL 2017 (NGM17) BY ALOS GLOBAL DIGITAL ELEVATION MODEL (GDEM) AND KTH METHOD

Nurul Nabilah Md Yusof, Muhammad Faiz Pa'suya, Mohamad Azril Che Aziz, Mohd Adhar Abd Samad and Ami Hassan Md Din

B257. LIJA 2.0: ANALISIS MASALAH PENGUASAAN PENULISAN JAWI: KAJIAN RINTIS

Shabibah Shaufit Affandi, Suzana Abd Mutalib, Nor Shazila Zakaria dan Md Zuki Hashim

B259. LAV MIST

Dyia Syaleyana Md Shukri, Zainab Razali, Sheril Syahira Mohd Fadri, Natasha Nadira Abd Halim and Julyle Muhamad Sugandi

B263. RESEARCH DATABASE TOOLS FOR ACADEMIC SCHOLARS (DrTOOLS)

Azrul Abdullah, Mohammad Fadhili Yahya and Mazlee Mohd Noor

B266. NATIONAL CHILD DATA CENTRE (NCDC) – CHILD DEVELOPMENT, ALERT & HEALTH MODULES

Sopia Md Yassin, Suzani Mohamad Samuri, Bahbibbi Rahmatullah, Mazlina Che Mustaffa and Nurul Salini Mohamed Salleh

B267. NATIONAL CHILD DATA CENTRE (NCDC) MOBILE APP

Suzani Mohamad Samuri, Sopia Md Yassin, Bahbibah Rahmatullah, Norazilawati Abdullah and Nurul Salini Mohamed Salleh

B268. CLIMBING PERCH FISH SCALE GELATIN FILM INCORPORATED WITH SPENT TEA EXTRACT

Salamiah Zakaria, Wahida Abdul Rahman, Mohd Ikmal Hisyam Basarudin and Sharizal Hasan Mohd Azuan Tukiar, Mohd Azrul Sidek, Mazli Din, Mohd Munir Ahmad, Siti Zalipah Ibrahim, Mohd Yazid Jamil and Lesairuamin Leiahs

B269. EZ-STOPPER

Mohd Azuan Tukiar, Mohd Azrul Sidek, Mazli Din, Mohd Munir Ahmad, Siti Zalipah Ibrahim, Mohd Yazid Jamil and Lesairuamin Leiahs

B270. MELIPHOENIX: STINGLESS BEE HONEY AND DATE SEEDS HEALING SERUM

Nur Syafiqah Binti Rahim, Yang Salehah Binti Abdullah Sani, Nurul Wahida Binti Shuib, Muhammad Amir Irfan Bin Azizan and Nurul Syazwina Binti Roslan

B271. SMART AUTOMATION TRAINER SYSTEM

Mohamad Azwan Bin Mohd Yunus, Mohamad Danuri Bin Suparman, Ahmad Nabil B. Ahmad Kamal and Muhammad Muzzammyl Bin Ahmad Fua'ad

B272. POWER SUPPLY TRAINING KIT

Ummi Nur Bazillah Bt Yusof, Rick Jason A/L David, Azrie Shahmie Bin Zaimey, Mohd Ikram Hanafi Bin Md Ropizan and Muhammad Nizal Bin Nasarudin

B274. FABRICATION OF DIY PRESSURE CASTING MACHINE FOR GRINDING MEDIA

Mustaffa Ali Azhar Taib, Raihan Abdul Wahab, Ahmad Syamim Akmal Zainuddin, Muhammad Al Iqbal Razali and Muhammad Luqman Hakim Hanipa

B279. GREEN DEEP EUTECTIC SOLVENT AS PLASTICIZER IN BIOPLASTIC

Rizana Yusof, Muhammad Hakim Shafie, Chee-Yuen Gan and Dalina Samsudin

EVENT C (STUDENTS OF HIGHER LEARNING INSTITUTION)**C015. NeeVeSprey – MULTIFUNCTIONAL NATURAL SANITIZER**

Mohamad Azhar Azman, Hamidah Jaafar Sidek and Muhamad Shafizul Md Sharudin

C026. VISIBLE LIGHT COMMUNICATION (VLC) : THE FUTURE OF WIRELESS COMMUNICATION USING LIGHT

Muhamad Irham Ma'ruf, Ahmad Adjibun Novi and Muhammad Sigit Wahyudin

C028. FORMULATION AND EVALUATION OF NOVEL ANTI FUNGAL DERMATICK CONTAINING METHANOLIC EXTRACTS OF RHINACANTHUS NUTANS

Mohammed Tahir Ansari Bin Mumtaz, Nurulfalahin Binti Daud Ibrahim, Farheen Binti Sami and Vishal Bhagwan Badgujar

C032. SEVELECT

Cinthia Vairra Hudyanti, Suhhy Ramzini, Muhammad Robby Dharmawan, Mochammad and Iskandar Ardiansyah Rochman

C034. BOAT GYRO STABILIZER

Nur Syazwan bin Abdullah, Muhammad Izzudin bin Shafiee, Muhammad Farisuzdin bin Abd Samat, Muhammad Azri bin Azmi, Zuraida Ahmad and Iskandar Idris bin Yaakob

C038. WESTLIVE: WEB-BASED ASSESSMENT FOR LEARNING USING GO FORMATIVE APPLICATION FOR IMPROVING STUDENT'S PHYSICS CONCEPT MASTERY

Himmatul Ulya, Lutfi Maulida, Nur Aini and Deni Ainur

C041. ANALYSIS THE POSSIBILITY THE LIGHTWEIGHT CONCRETE TO REPLACE MANGROVE WOOD

Mohamad Zulkifli Bin Mohamad Lazin, Mohd Ikmal Fazlan Bin Rozli@Rosli, Nurnadzirah Binti Nasaruddin, Che Mohd Hilmi Safiudin B Che Jamaluddin Mahmud, Nur Nadeera Binti Kipperawi

C046. DIFODEAF (DICTIONARY FOR DEAF)

Anjas Pramono, Jauhar Bariq Rachmadi, Avisena Abdillah Alwi, Mochammad Iskandar and Ardiansyah Rochman*

C049. MOMOVERA BATH DA BOMB - ANTIBACTERIAL SOAP FOR HEALTHY BODY AND SKIN

Siti Roihan Ibrahim, Hamidah Jaafar Sidek, Nur Amira Abdul Lateh, Mohamad Azhar Azman and Mohamad Azli Azman

C054. GSM BASED HOME SECURITY ALARM SYSTEM USING ARDUINO

Mohamed Nasrun Osman, Salina Asi, Chow Seng Keong, Teoh Jin Chai and Muhammad and Salahuddin Mat Yaacob

C055. MARINE SOIL BRICK REINFORCED WITH SYNTHETIC FIBER

Ajifi Fakhri Amir Hamzah, Luqman Hakim Ahmad Sharif, Wan Safizah Wan Salim and Siti Fatimah Sadikon

C056. CO₂ BFBAR: PRODUCER GAS IMPROVEMENT

Mahadzir M.M., Faiz M.F, Maslinda M.M., Natashea S. and Ismail N.I.

C061. PROBIOAESTHETIC ESSENCE

Idi A'lamin Bin Idris, Khairunisa Binti Badrul Hizam, Nur Wajiha Binti Masdar, Nur Syafiqah Binti Rahim and Nur Atikah Husna Binti Ahmad Nasir

C065. WIRELESS SENSOR NETWORK BASED ON TEMPERATURE AND HUMIDITY ALERT SENSOR FOR QUAILS' HOUSE USING GSM AND ARDUINO

Siti Badariah Binti Mohamed Daud, Rashidah Ramle, Mohd Ashraf Zainol Abidin, MJuhammad Daniel Arif Bin Ahmad Fairuz and Iman Hazwam Bin Abd. Halim

C073. CIMON NOODLES

Nazatul Nabila Bt Mohamad, Nur Shuhada Nabilla Bt Mohd Yunus, Nurhidayah Bt Zakaria, Nurul Afifa Bt Abdul Rahman and Nur Atiqah Bt Othman

C074. INTELLIGENT DIABETIC MONITORING SCALE

S.J. Piong, Abdul Wafiy, Nik Nurul Syazwani, Jeyashri Veeraiah and Nur Fateen

C078. OUTSTANDING PERFORMANCE OF NOVEL CATHODE BUTTON CELL FOR INTERMEDIATE TEMPERATURE PROTON CONDUCTING FUEL CELL (PCFC)

Ismariza Ismail, Nurul Waheeda Mazlan, Lidyayatty Abdul Malik, Oskar Hasdinor Hassan, Abdul Mutalib Md Jani and Nafisah Osman

C080. MUSA EPIGEL

Husna Haziqah Binti Mohd Rodzi, Nor Atikah Husna Binti Ahmad Nasir, Nur Syafiqah Binti Rahim, Norlin Binti Shuhaime and Ahmad Zuhairi Bin Abd Rahman

C081. THE NEXT GENERATION OF SOLID OXIDE FUEL CELLS: INTEGRATION OF PEROVSKITE NANOTUBES AND SPIN COATING FILM FOR INCREASED POWER

Anisah Shafiqah Habiballah, Nurul Afifah Mahmud, Nurul Izzati Abd Malek, Nafisah Osman and Abdul Mutalib Md Jani

C084. MULTI – FUNCTION LAB EQUIPMENT (MUNIQUE)

Noran Zahrine Zainal, Mohd Esta – Husna Zainal, Halimah As Saadiyyah Razali and Muhammad Asyraf Aimullah Ahmad Sukri

C085. WIRELESS HOME SWITCH CONTROLLER (WISER)

Hasrulnizam Hashim, Nur Akmal Saary, Norazuin Md Ayob, Adi Muzani Suhairi and Muhammad Amir Zahid Abd Razak

C090. SWAT (SHOES WITH ANTI-BACTERIA TECHNOLOGY) BY SYNTHESIS SILICA FROM LAPINDO MUD VOLCANO COMBINE WITH ETHYL ACETATE FROM PANDANUS AMARYLLIFOLIUS BASED NANOTECHNOLOGY

Muhammad Isro, Arvani Anwar, Afifah Hasna Nirwan and Sakhiyyah Afifah

C092. MITOSIS KONDRIA

Sukiman, Sukija, Sri and Sutiyem

C096. BABY MULTIPURPOSE HARUMANIS SERUM

Nur Izzati Binti Suhaimi, Zainab Binti Razali, Nur Syafiqah Binti Rahim, Nurul Fatehah Binti Abu Seman and Fatin Afina Binti Baharudin

C97. CENTELLAPRO CREAM

Nur Syazwani Binti Zakeria, Nir Fatimah Nasuha Binti Ismail, Muhammad Fizri Bin Ahmad Zubir, Nur Syafiqah Binti Rahim and Roziana Binti Mohamed Hanaphi

C099. NUNA (NUTRITION PREGNANCY APPLICATION)

Attifa Yuha Nurhayati, Ayu Lestari, Lulu Safira, Sri Puji Astuti and Siti Isfania Kayla Ramandhika

C105. DEVELOPMENT OF ANODE-SUPPORTED BUTTON CELL FOR PCFC APPLICATION

Shazana Mohd Senari, Nur Syafkeena Mohd Affandi, Oskar Hardinor Hassan, Abdul Mutalib Md Jani and Nafisah Osman

C113. NEEMS LOTION

Sharifah Yuhayu bt Syed Hamid, Segar A/L Valaiathan, Nakammh A/P Ayaro, Logaraj Naidu A/L Muniandy, Tanalechumy A/P Sethu and Muhammad Liwauddin Bin Abidin

C115. E-BEAT

Rehan bt Berhanudin, Santhaletchumi a/p Gonvidaamy, Jagadish A/L Ganesan, Vimmel A/L Subramaniam, Wong Xi Xiang and Sivakami A/P Marimuthu

C119. CE MINI-BAG AND CAJUPUT ESSENTIAL OIL – A SUSTAINABLE NATURAL INSECTICIDE FOR HERITAGE BUILDINGS

Alia Diyana Mohamed Hassim, Nivaarani Arumugam, Boon Jia Geng, Jayaraj Vijaya Kuamran and Suganthi Appalasamy

C125. CANDY SORTING ARM ROBOT BASED ON COLOUR DETECTION

Ng Hock Seng, Siti Khadijah Binti Mohd Pauzi, Nur Liyana Binti Azmi and Mohd Rizal Bin Manan

C126. DEVELOPMENT OF WRITING ROBOTIC ARM

Chee Kuok Yew, Farah Nabilah binti Zabani, Norazimah binti Abdulah and Mohd Rizal bin Manan

C127. DEVELOPMENT OF MEAL CALORIES DETECTOR DEVICE

Nur Rodiatul Raudah binti Mohamed Radzuan, Noor Hikmah binti Mohd Salleh and Sofi bin Yahya

C128. HAIRBISCUSS: A NATURAL HAIR SHAMPOO

Nor Atikah Husna Ahmad Nasir, Nurul Mardhiah Abdul Rahim, Nor Aniezan Mohd Said, Rohayu Ramli and Ahmad Zuhairi Abdul Rahman

C130. GARUDA UAV FLIGHT GROUP, MOTHERSHIP AIRCRAFT

Tirta Inovon, Ardi Yusri Hilmi, Wahyu Agung Wicaksono, Epilia Rifa Indrianti and Cintya Raffa Fathiya

C133. KROKOT STEAMED BROWNIES: UTILIZATION OF KROKOT PLANTS (*PORTULACA OLERACEA L.*) AS SOURCE OF OMEGA 3 SNACKS

Hindun Nur 'Aisyah, Astri Anggraeni, Zidni Khasanah, Rizky Hermawan and Denda Wiguna

C138. EASY LATERAL RADIOGRAPHIC HOLDER

Rabiahatuladawiah binti Musa, Mariam binti Salleh, Mohd Faizz Fahmi bin Ariaiff, Faeizal bin Sariman, Mohd Riduan bin Mohamad, Sallehuddin bin Bachok, Hanun Hamizah binti Zakaria and Nurul Asyiqin binti Azman

C139. ECZEMA RELIEF MIST

NurA'tiqah Binti Haron, Nurhanani Binti Ayub, Nur Syafiqah Binti Rahim, Zainab Binti Razali and Norlin Binti Shuhaimie

C150. MATHEMATIC EDUCATIONAL GO (MEGo)

Mohamad Rhafiq Bin Sulaiman, Wan Farhan Hakim Bin Wan Rosmadey, Aznilinda Binti Zainuddin, Farah Marinah Binti Aminuddin, Shafiq Bin Sahiri, Anis Shafiqah Binti Radzuan and Munirah Binti Onn

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D022. SILENT SOUND ALERT

Nurin Elisa Binti Mohd Ariffin, Nuralya Batrisyia Binti Razman Shah, Nur Kamelia Binti Ahmad Tarmizi and Sufiah Binti Sudirman

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Mahadzir M.M., Akmal M.Z, Syafawati M., Aisya N. and Sarilawati

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Nur Sabrina Iryani Binti Mohd Radhi, Nur Amani Umairah Binti Shahrizal, Muhammad Hakimi Haikal Bin Zainal Abidin, Nurul Nadia Binti Ismail and Raudhah Binti Ramlan

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Juliana Martin, Aisyah Maisarah Abdul Rahman, Aina Qistina Abdul Rahman and Arif Danial Abdul Rahman

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D148. MouthICA: NATURAL MOUTHWASH

Nurin Fathirah bt Farouk, Nur Afiqah Farhana bt Zamri and Nur Diyana binti Sallehuddin

D149. SINT TERRA

Muhammad Aniq bin Abdul Rahim, Ahmad Farhan bin Nasrezam, Muhammad Fikri bin Jeflee, Muhammad Nabil Muqri bin Norazam and Mohd Khaidzir bin Yusof

D150. I-NOBILIS ECO AQUA

Ahmad Syakir Akhtar bin Ahmad Zafir, Raja Muhammad Hazim Imran Mohar bin Raja Mazhar Mohar, Amir Hady Adam bin Ami Akhram, Ilyas bin Ishak and Mohd Khalid bin Ali

D156. POT OF GLORY

Yusof Ahmad, Nur Farra Hamisha Mazli, Nurain Muhammad Azman, Muhamad Hakimi Suhaimi and Muhammad Fitri Mohd Khairi

D157. THE EFFECT OF ANNONA MURICATA ON RATTUS RATTUS

Ainin Sofia Binti Md Yusri, Qurratu'ain Zakirah Binti Noor Hisham, Nur Hafizah Hasan Marina Mohd. Top @ Mohd. Tah

D163. I-RATS

Muhammad Shakirin Bin Dzakariya and Muhammad Uwais Bin Mat Aziz

D167. RIDE AND PLANT

Natasha Nadya binti Hussin, Aminah Binti Bujang, Stefani Dian Cheri binti Khairul Nizam and Nur Ainul Mardhiah binti Khairil Nizam

D170. FLOOD'LERT: ALAT PENGESAN DAN PEMBERI AMARAN BANJIR

Abdullah Fahmi Faiezi bin Abdul Halim, Muhammad Danish Aiman bin Mohd Roshidi, Muhammad Shafiq Farhan bin Mohd Shafie dan Ahmad Fuat bin Jamaludin

D171. STB KITS

Abdul Hannan Abdul Hadi, Abdul Basyir Abdul Hadi, Abdul Hadi Abdul Halim and Ahmad Zaidi Abdullah

D172. PPSR GOAL SETTING SYSTEM

Farhan Iskandar Jiwa Noris, Haziq Iskandar Jiwa Noris, Anaz Danish Qusyairi Khairun Anuar, Norliza Mohamad dan Jiwa Noris Hamid

D176. SK IPGM PORTABLE OFFICE

Hafidzan bin Azmi, Syakirah Samat, Muhammad Amerul Naim, Eiman Faheem bin Khairuddin, Muhammad Afif Fahim Khairil Anuar, Muhammad Wafi Zaidi and Muhammad Afifuddin bin Mohd Abdul Rahim

D177. SK IPGM SMART BUS STATION

Hafidzan bin Azmi, Syakirah Samat, Nur Arissa Umaira bt Hisyam, Hariz Hazim bin Mohammad Mujahidin, Muhammad Aqief Miqael bin Nor Halmey, Nur Aleesya Damia bt Ahmad Zaidi and Siti Nur Iman Irdina bt Azmi

D178. SOLAR SHOES DRYER

Hafidzan bin Azmi, Syakirah Samat, Afif Faheem bin ohd Zuraiz, Nor Atina Qurrotu'ain bt Hakimi, Anis Nur Izzani bt Abdul Aziz, Alif Amiruddin bin Zul Qarnain and Nur Natasya Adilla bt Hafidzan

D183. INNOVATIVE MULTIPURPOSE MINI BRICK FROM WASTE OF LANDSLIDE (FROM WASTE TO WEALTH)

Muhammad Ariq Adam Danial Basharudin, Muhammad Kasyfi Alvan Daniel Basharudin, Muhammad Faris Irysad Ishak, Muhammad Ikhwan Ali and Alif Bazli Norhisham

EVENT E (KINDERGARTEN INNOVATION)

E014. POP! POP! JAWI BOOK: FUN AND INTERESTING

Wan Anisha Wan Mohammad, Azlina Mohd Mydin, Zuraira Libasin, Rafizah Kechil and Siti Nurleena Abu Mansor

E023. KELUARGA u DAN n AJAIB

Nor Shahida binti Saroni and Muhammad Faiz bin Alias, Nazri Halim, Suhailah Shariff, Drs Abdul Shukor Shaghier, Norazmi Hashim dan Hariyanti Abdul Hamid

E024. DYSLEXIA LEARNING KIT (VERSION – 1)(DYLIKIT - V1)

Nazri Halim, Suhailah Shariff, Drs Abdul Shukor Shaghier, Norazmi Hashim dan Hariyanti Abdul Hamid

E031. LET'S JUMP AND THINK WITH KETINGTING

Siti Mariam Saad, Mahanim Omar and Siti Nurleena Abu Mansor

E056. MAGIC CARPET

Noranyza Bt Zainol, Muhammad Nur Asyraf Bin Zukri, Mohamad Irfan Akmal Bin Harun, Nur Nabihah Binti Mohd Sholihin, Intan Fazlen Binti Azman and Nurain Fatimah Binti Kamarul

E067. A STORY OF SAFIY: MY DAILY ROUTINE

Wan Nor Hafidzah binti Wan Mohd, Shahrul Anuar bin Aziman, Che Khalilah binti Mahmood and Nor Haliza binti Hamzah

E072. MINI PUPPET SHOW: MyPUPPETS

Loy Chee Luen, Goh Swee Choo, Zainiah@Zainiah Binti Mohamed Isa, Nordin Bin Mamat and Abdul Halim Bin Masnan

E074. ABC'S IS FUN

Najlaa Humairah bt Mohd Najmuddin, Muhammad Najmuilmi Hakim bin Mohd Najmuddin, Najidah Humairah bt Mohd Najmuddin and Azizah bt Hamzah

E089. KIRA-KIRA MATEMATIK

Mahfudzah Othman, Nurzaid Muhd Zain, Nur Fizliyana Ezzati Zaidi, Nur Naja Najwa Zainon dan Adib Farhan Azzemi

E095. INTERACTIVE ANDROID PHONIC READING FOR KINDERGARTEN

Hawa Mohd Ekhsan, Jiwa Noris Hamid, Mohd Hafiz, Nur Amyleena and Muhammad Mohd Sobri

E100. ESCTI: ASSESSING MALAYSIAN PRESCHOOL CHILDREN IN SHORT TERM IMPACT

Azizah Bt Zain, Nor Diana Bt Hamzah, Siti Nor Amalina Bt Tajuddin, Jamilah Basir Azhar Buhari and Azhar Bin Buhari

E102. FUN SCIENCE FOR EARLY CHILDHOOD

Nur Atiqah Zaharullil and Dr Hussein Hanibah

E105. 3SKILLS4LIVE

Abdul Halim Bin Masnan, Azizah Bt. Zain, Farah Shafawati Bt. Mohd Taib, Elyssa Heinzie Ak Josin and Nur Ellinna Bt Anthony

E116. 1, 2, 3! WITH AUGMENTED REALITY

Nor Farzana Syaza Binti Jeffri and Assoc. Prof. Dr. Dayang Rohaya Binti Awang Rambli

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F013. MuMKIT

Rafizah Kechil, Zuraira Libasin, Wan Anisha Wan Mohammad dan Azlina Mohd Mydin

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Shameen Izwan Anthonysamy and Khairul Naim Abd Aziz

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