



UniMAP

i-ENVEX '15

Universiti Malaysia Perlis



**INTERNATIONAL
ENGINEERING INVENTION
& INNOVATION EXHIBITION
(i-ENVEX 2015)**

**17 - 19 APRIL 2015
DEWAN ILMU, PAUH PUTRA, UniMAP**



MINISTRY OF EDUCATION



ENVEX
Visiting
Researcher



IFIA
Founded 1958

SONGS

Wawasanku

Universiti Malaysia Perlis

Alam Kejuruteraan

Ilmu, Keikhlasan, Kecemerlangan

Wawasan Jiwa Kita

Berdikari, Rohaniah, Berteknologi

Pemimpin Berbestari

Untuk Bangsa, Insan Dan

Umat Dunia

Negara Yang Tercinta

Universiti Malaysia Perlis

Alam Kejuruteraan

Ilmu, Keikhlasan, Kecemerlangan

Wawasan Jiwa Kita

Semangat UniMAP

Visi Universiti

Visi Berintegriti

Dinamik Masa Berinteraksi

Visi Kita Semua

Membina Jiwa Minda

Sama Semangat Untuk Negara

Visi Universiti

Visi Berintegriti

Dinamik Masa Berinteraksi

Visi Kita Semua

Membina Jiwa Minda

Sama Semangat Untuk Negara

Visi Cemerlang Gemilang Terbilang

UniMAP!

Message From

THE VICE CHANCELOR
UNIVERSITI MALAYSIA PERLIS

In The Name of Allah S.W.T, Most Gracious, Most Merciful.

Assalamualaikum Warahmatullahi Taala
Wabarakatuh and Salam IMalaysia.

My sincerest appreciation to Allah S.W.T, praise be upon Him, the most Gracious and Merciful for His blessings in giving us this precious opportunity and moment to organize this outstanding event. The 6th International Engineering Invention & Innovation Exhibition (i-ENVEX2015) marks another historic and important exhibition in University Malaysia Perlis (UniMAP) as it is the sixth of its kind to be held in this university at international level.

I am a firm believer of the maxim 'knowledge is power'. For I believe that with knowledge, we can hope to solve the most complex of problems, we can realize the most improbable of dreams and we will be able to move the highest of mountains, literally and figuratively. Above and beyond that, while the importance of knowledge has been recognized throughout history, it has perhaps never been prized as highly as a strategic and economy commodity as it is today, in what we call the 'Information Age' or 'Knowledge Society'. In this modern economy, knowledge has not only become a factor of production, it has become the most important, the most critical factor of production.

UniMAP firmly advocates the belief that knowledge transforms the community. Knowledge equips our students with the ability to be humane and to understand others; knowledge allows the development from both a social and economic perspective of the nation. As a university, we are united by our common values and shared experiences. Via events such as i-ENVEX2015, it allows us stretch even further, capitalize our comparative advantages and to engage in a multiracial, multicountry platform.



I believe that i-ENVEX2015 outlines the integrated approach in providing great prospect for the exchange and cultivation of ideas and knowledge while seizing the entrepreneurial opportunities and possibilities of commercialization.

I am very pleased that after twelve years since our establishment, UniMAP has successfully sets out a clear and compelling vision. Undoubtly, many challenges lie ahead. UniMAP with strategic partners in i-ENVEX2015 needs to work hard at improving the capacity of our knowledge assets as pillars of income generation, entrepreneurial mindset. Benjamin Franklin once said, 'An investment in knowledge always pays the best dividends'. With that in mind, i-ENVEX2015 is the testament to the importance of knowledge and cumulative strengths that intellect and intellectual can bring as an agent for change and transformation.

Wassalam.

Brig. General Datuk Prof. Dr. Kamarudin Hussin

i-ENVEX HISTORICAL BACKGROUND

ENVEX has been organised since 2009 for internal participants in support of 7-i program. In 2010, ENVEX was opened to national level which not only attracted Malaysian participants but also from Saudi Arabia, Thailand and Indonesian universities. 2011 marks a historic moment when ENVEX was rebranded to i-ENVEX and upgraded into an international event. ENVEX Young Researcher Club (EYReC) was also established in the same year as an umbrella society to all innovation and invention events. EYReC is also a Perlis Chapter for Malaysian Invention and Design Society (MINDS). In 2015, i-ENVEX attracted participations from 10 countries, collecting almost 455 inventions and gathering more than 500 inventors worldwide.

THEME

Engineering For Society

OBJECTIVES OF I-ENVEX 2015

- Encouraging students to take part in research and innovation field.
- Recognition of engagement in life-long learning
- Establishing international networking and collaboration among young researchers of different countries.
- Supporting the nation's advancement through research and development activities in science and technology.



TENTATIVE ENGINEERING INVENTION & INNOVATION EXHIBITION (i-ENVEX 2015) DEWAN ILMU PAUH PUTRA, UniMAP 17th – 19 th APRIL 2015

17th April 2015 (Friday)

- | | |
|-------------|---|
| 1400 – 1800 | - Participants Registration - (Dewan Ilmu, Pauh Putra Campus, UniMAP) |
| | - Booth Preparation |

18 April 2015 (Saturday)

- | | |
|-------------|---|
| 0830 – 0900 | - Arrival of Participants - Dewan Ilmu, Pauh Putra Campus, UniMAP |
| 0900 – 1700 | - Exhibition - Start
Judging Session |
| 1700 | - Exhibition - [Postponed] |

19 April 2015 (Sunday)

- | | |
|-------------|---|
| 0900 – 1700 | - Arrival of Participants - Dewan Ilmu, Pauh Putra Campus, UniMAP |
| | - Exhibition - Start |
| | - Judging Session (Special Award) |
| 1000 – 1200 | - i-ENVEX 2015 AWARD CEREMONY |
| 1200 – 1400 | - Winner's prize & award redemption |

TENTATIVE AWARD GIVING CEREMONY DEWAN ILMU PAUH PUTRA, UniMAP 19th APRIL 2015

19 April 2015 (Sunday)

- | | |
|-------------|--|
| 0930 – 0940 | - Arrivals of Delegations & Participants |
| 0940 – 0950 | - Arrival of UniMAP's Senior Officers & Invited Guest |
| 0950 – 1000 | - Arrival of The Vice Chancellor of UniMAP & Spouse |
| 1000 – 1200 | - Arrival of Deputy Minister of Education II, YB Tuan P. Kamalanathan a/I P. Panchanathan |
| | - National Anthem and UniMAP Official Song - WAWASANKU |
| | - Welcoming speech by YBHG. Vice Chancellor UniMAP |
| | - Closing Speech by Deputy Minister of Education II, YB Tuan P. Kamalanathan a/I P. Panchanathan |
| | - Presentation of Awards and Souvenirs |
| | - UniMAP Official Song - Semangat UniMAP |
| 1200 | - End of Ceremony |

PARTICIPANT LIST

CATEGORY : INTERNATIONAL

NO.	NAME OF INSTITUTION
1	UNIVERSITY OF BRAWIJAYA, INDONESIA
2	SMA FATIH BILINGUAL SCHOOL
3	UNIVERSITI - INDONESIAN INVENTION AND INNOVATION PROMOTION ASSOCIATION (INNOPA)
4	HIGH SCHOOL - INDONESIAN INVENTION AND INNOVATION PROMOTION ASSOCIATION (INNOPA)
5	MULAWARMAN UNIVERSITY, INDONESIA
6	SEKOLAH GURU INDONESIA, INDONESIA
7	DEOGI HIGH SCHOOL, KOREA
8	ULSAN SCIENCE HIGH SCHOOL, KOREA
9	KOREA UNIVERSITY INVENTION ASSOCIATION, KOREA
10	SEOUL SCIENCE HIGH SCHOOL, KOREA
11	MINISTRY OF AGRICULTURE AND FISHERIES, OMAN
12	NAVOTAS NATIONAL HIGH SCHOOL, PHILIPPINES
13	AOSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY, PHILIPPINES
14	CARAGA STATE UNIVERSITY AND AOSAN DEL SUR STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY, PHILIPPINES
15	NEW TAIPEI MUNICIPAL ZHONG HE SENIOR HIGH SCHOOL, TAIWAN
16	NATIONAL TAIWAN UNIVERSITY, TAIPEI FIRST GIRLS HIGH SCHOOL, TAIWAN
17	TAIPEI FUHSING PRIVATE SCHOOL, TAIWAN
18	YUANPEI UNIVERSITY OF MEDICAL TECHNOLOGY, TAIWAN
19	HUS HIGH SCHOOL FOR GIFTED STUDENTS, VNU UNIVERSITY OF SCIENCE, VIETNAM
20	EGYPT
21	IRAN
22	IRAQ

CATEGORY : UNIVERSITY

NO.	NAME OF INSTITUTION
1	ASIA E UNIVERSITY
2	INSTITUT KEMAHIRAN MARA SIK, KEDAH
3	INSTITUT KEMAHIRAN TINGGI PERDA (PERDA-TECH)
4	INSTITUT PENDIDIKAN GURU KAMPUS DARULAMAN
5	INTERNATIONAL COLLEGE OF AUTOMOTIVE (ICAM)
6	POLITEKNIK MERLIMAU MELAKA
7	POLITEKNIK SULTAN ABDUL HALIM MU'ADZAM SHAH (POLIMAS)
8	POLITEKNIK TUANKU SULTANAH BAHYAH (PTSB)
9	UCSI UNIVERSITY
10	UNIVERSITI ISLAM ANTARABANGSA MALAYSIA, CAWANGAN KUANTAN
11	UNIVERSITI KUALA LUMPUR - MALAYSIAN INSTITUTE OF MARINE ENGINEERING TECHNOLOGY (UNIKL MIMET)
12	UNIVERSITI KUALA LUMPUR - MALAYSIAN SPANISH INSTITUTE (UNIKL MSI)
13	UNIVERSITI MALAYA (UM)
14	UNIVERSITI MALAYSIA KELANTAN (UMK)
15	UNIVERSITI MALAYSIA PAHANG (UMP)
16	UNIVERSITI MALAYSIA SARAWAK (UNIMAS)
17	UNIVERSITI PENDIDIKAN SULTAN IDRIS (UPSI)
18	UNIVERSITI PERTAHANAN NASIONAL MALAYSIA (UPNM)
19	UNIVERSITI PUTRA MALAYSIA (UPM)
20	UNIVERSITI SAINS MALAYSIA (USM)
21	UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM)
22	UNIVERSITI TEKNOLOGI MALAYSIA (UTM)
23	UNIVERSITI TEKNOLOGI MARA (UITM), CAWANGAN KEDAH
24	UNIVERSITI TEKNOLOGI MARA (UITM), CAWANGAN KELANTAN
25	UNIVERSITI TEKNOLOGI MARA (UITM), CAWANGAN PULAU PINANG
26	UNIVERSITI TEKNOLOGI PETRONAS (UTP)
27	UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM)
28	UNIVERSITI UTARA MALAYSIA (UUM)

CATEGORY : HIGH SCHOOL

NO.	NAME OF INSTITUTION
1	IKBN SERI ISKANDAR, PERAK
2	ILP JITRA, KEDAH
3	ILP KEPALA BATAS, PULAU PINANG
4	KISAS, SELANGOR
5	KMKN, KEDAH
6	KMKULIM KEDAH
7	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
8	MCKK, PERAK
9	MJSC KUANTAN, PAHANG
10	MRSM BALIK PULAU, PULAU PINANG
11	MRSM GEMENCHEH, NEGERI SEMBILAN
12	MRSM SERTING, NEGERI SEMBILAN
13	MRSM TRANSKRIAN, PULAU PINANG
14	RAJA PEREMPUAN TAAYAH SCHOOL, PERAK
15	SBPI GOMBAK, KL
16	SBPI RAWANG, SELANGOR
17	SEKOLAH SERI PUTERI, SELANGOR
18	SEKOLAH TINGGI KLUANG, JOHOR
19	SEKOLAH TUN FATIMAH, JOHOR
20	SK SENA, PERLIS
21	SK SULTAN IDRIS 2, PERAK
22	SK TAMBUN, PERAK
23	SM IMTIAZ (YT) BESUT
24	SM IMTIAZ (YT) KUALA BERANG, TERENGGANU
25	SM IMTIAZ YAYASAN TERENGGANU, KUALA TERENGGANU
26	SM ST MICHAEL, PENAMPANG SABAH
27	SM TEKNIK ALOR SETAR, KEDAH
28	SMAP LABU, NEGERI SEMBILAN
29	SMK ABDUL RAHMAN TALIB, PAHANG

NO.	NAME OF INSTITUTION
30	SMK AGAMA ARAU, PERLIS
31	SMK AGAMA KEDAH
32	SMK AYER HITAM, KEDAH
33	SMK DATO' SHEIKH AHMAD, PERLIS
34	SMK IBRAHIM, KEDAH
35	SMK KOTA KEMUNING, SELANGOR
36	SMK PAYA KEMUNING, KEDAH
37	SMK PUTERI WANGSA, JOHOR
38	SMK SULTAN ISMAIL 2, KEMAMAN TERENGGANU
39	SMK SYED SAFFI, PERLIS
40	SMK TAMAN DAYA 2, JOHOR
41	SMKA (P) ALAWIYAH, PERLIS
42	SMKA AL-IRSHAD, PULAU PINANG
43	SMS HULU SELANGOR
44	SMS JOHOR, JOHOR
45	SMS KUBANG PASU, KEDAH
46	SMS KUCHING, SARAWAK
47	SMS LABUAN, SABAH
48	SMS MUZAFFAR SYAH, MELAKA
49	SMS POKOK SENA, KEDAH
50	SMS R.J TUN AZLAN SHAH, PERAK
51	SMS TAPAH, PERAK
52	SMS TENGGU ABDULLAH, PAHANG
53	SMS TUANKU MUNAWIR, NEGERI SEMBILAN
54	SMS TUANKU SYED PUTRA, PERLIS
55	SRK PUTERA, PERLIS

CATEGORY INTERNAL : UNIVERSITI MALAYSIA PERLIS (UniMAP)

NO.	NAME OF INSTITUTION
1	DIPLOMA PROGRAMME COORDINATION UNIT
2	FACULTY OF ENGINEERING TECHNOLOGY (FETECH)
3	SCHOOL OF BIOPROCESS ENGINEERING
4	SCHOOL OF COMPUTER & COMMUNICATION ENGINEERING
5	SCHOOL OF ELECTRICAL SYSTEM ENGINEERING
6	SCHOOL OF ENVIRONMENTAL ENGINEERING
7	SCHOOL OF MANUFACTURING ENGINEERING
8	SCHOOL OF MATERIALS ENGINEERING
9	SCHOOL OF MECHATRONIC ENGINEERING
10	SCHOOL OF MICROELECTRONIC ENGINEERING

PARTICIPANT LIST

CATEGORY : INTERNATIONAL

INDONESIA

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Stefanie Maria Ayu, Nela Maulina Fatikah, I Made Dedi Mahariawan	Fish Clinic for World's Fisheries and Marine Future	A	University of Brawijaya
Raisa Lathifah Najmina, Muh Husni Rifa'i, Sidiq Darmawan	Wave Pasteurized Control: Pasteurized Machine Using Microwave	A	University of Brawijaya
Aprilia Nur Indah Sari, A'in Ainul Ghufroh, Rosyidah Kholiyah, Farid Andi Hakim, Tessa Nurul Akbari, Achmad Fandy Kurniawan	Cpns (Chlorella Pyrenoidosa Nureter System) as Phenol Bioremediation of Polluted Water in The Area Waters	A	University - Indonesian Invention And Innovation Promotion Association (INNOPA)
Faraug Arrahman, Yasmin Megarini, Fata Muslim Fikri, Dea Hillary, Perahu Team Ipb & Ui	Samshoot	A	Universiti - Indonesian Invention And Innovation Promotion Association (INNOPA)
Prasada Aditama Kridawan	"ADP : Detection and Prevention Appliance "Wild Fishing" as Effort to Conserve Marine Life in Sumenep, East Java, Indonesia"	A	University of Brawijaya, Indonesian Invention and Innovation Promotion Association (INNOPA)
Aily Iftikhhar , M Iqbal Akbar , Qistmullah Hasani	Adsorption of Metal Plumbum [Pb2+] Using Lignin From Sawdust Waste of Durian Tree	A	SMA Fatih Bilingual School
Cut Aldria , Nya' Cahya Keumala	The Isolation of Galactomannan from The Residue of Coconut Kernel By Using Ash Of Burnt Brick as an Adsorbent	A	SMA Fatih Bilingual School
Mirsa Ita Dewi Adiana	AlFath (Electrical Insemination Gun for Cattle)	A	University of Brawijaya, Indonesian Invention and Innovation Promotion Association (INNOPA)
Rhezaldian Eka Dharmawan	Exceldent	C	University of Brawijaya
Imam Hanafi, Dewi Nur Hallmah, Danang Andre Wijaya.	"CHOYOG" Herbal Soap Anti Acne & Anti Ageing	C	University - Indonesian Invention and Innovation Promotion Association (INNOPA)
Muhammad Burhanudin Arifin, Muhammad Noer Ali	AKUAROL	C	University - Indonesian Invention and Innovation Promotion Association (INNOPA)
Sylfa Rizkyawati, Jefri Anjaini	BROWSEA (Brown Seaweed) Breast Cancer Prevention Solutions Through Utilization of Theobroma Cacao and Sargassum Siliquosum	C	University of Brawijaya, Indonesian Invention and Innovation Promotion Association (INNOPA)
Yusuf Abdullah Marekar, Siwoo Lee, Mardiyah Jusuf Hasan Mansoor	Turbidimeter Utilization Techniques as Media Detection For Kidney Disease Through Urine Turbidity Levels	C	High School - Indonesian Invention and Innovation Promotion Association (INNOPA)
Meutia Fadhila, Sheila Vista Yong	Identification of Tannin in Extract Of Asam Suntii Using Methanol Solvent	C	SMA Fatih Bilingual School
Said Alfahulmizan, Teuku Adlan Makmur Rizqullah Mafazi Ramadhan Alkhairi	Identification of Flavonoid Compounds of Leaves of Averrhoa Bilimbi Linn By Using Methanol Solvent	C	SMA Fatih Bilingual School

Amirul Mukhlisin, Windy Antika Antis Watin, Nina Milasari, Dessy Purnama Sari, Fitri Nor Maulidya	Taktiktak (Otak Atik Otak) Innovation of Effective, Educative, And Interactive Game For Elementary School	G	University - Indonesian Invention and Innovation Promotion Association (INNOPA)
Fathurrahman, Dara Silfiana, Khaerani Abbas	Talent School For Improving The Quality of Education and Welfare for Border Communities of Indonesia-Malaysia in Asean Economic Community	G	Mulawarman University, Indonesian Invention And Innovation Promotion Association (INNOPA)
Fitriani Wahyu Setyaningrum, Budi Iskandar, Elis Yuliani	Pop Up Card	G	Sekolah Guru Indonesia, Indonesian Invention and Innovation Promotion Association (INNOPA)
Rifaldy Fajar, Adi Suseno, Nana Indri Kurniastuti	Drug Dangers Quartets (KABAYAN): Educational Games and Interactive Card on Teens in an Effort to Realize a Healthy Adolescent Without Drugs	G	University - Indonesian Invention and Innovation Promotion Association (INNOPA)
Aulia Tirtana Putri & Thalia Sheila	Electricity Via Human Body Heat	E	SMA Fatih Bilingual School
Annisa'us Syarifah	Special Award and Best Machine Innovation Technology Desain	F	University of Brawijaya, Indonesian Invention and Innovation Promotion Association (INNOPA)



KOREA

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Han, Sung- Min,	A Study Experiment of Separate Garbage Collection Robot	A	Deogi High School
Choi, Won- Hyuk,	The Invention of LOHAS-Oriented Health Food Manufacturing	C	Ulsan Science High School
Park, Sung- Lul	A Step 6 Method For Improving Skin Condition Using Composition Comprising Red-Willfordi Root And Black - Ginseng Fermentation Extract Haved Skin Whitening Function	C	Korea University Invention Association
Kim, Yi - Tak	Motion Analysis and Modeling of Thin Plate in Flowing Fluid Considering Gravitational Effects	E	Seoul Science High School
Park, Ho- Geun	Rice Bran & Linseed Fermentation Gold Production(Prob 365)	F	Korea University Invention Association

OMAN

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Shifaa Manaaj Rajab Bait Suwailam	Mass Production Techniques for H. Thompsonii Fisher to Control Coconut Mite	A	Ministry of Agriculture and Fisheries

PHILIPPINES

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Carlos Oro, Gene Milborn T. Sapit	Manipulative Instructional Materials from The Scales of Chanos Chanos	A	Navotas National High School

Beverly T. Omambing and Gee Marie S Binag	Gems Organic Pesticide	A	Agusan del Sur State College of Agriculture and Technology
Rainer P. Sularte, Levitah C. Mapatac And Gee Marie S. Binag	Organic Thermoplastic Film Material	D	Caraga State University And Agusan Del Sur State College Of Agriculture And Technology

TAIWAN

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Chang-Chih-Chao, Chu-I-Hao, Cheng-Po-Yun, Wang-Jing-Feng, Kang-Chun-Yu	Jack and His Magic Egg	A	New Taipei Municipal Zhong He Senior High School,
Chiwei Shiao, Chishan Shiao	Automatic Monitoring And Warning System For Worn Tires	B	National Taiwan University, Taipei First Girls High School
Tsai,Yi-Lin, Cheng,Sheng-Hsuan, Liao,Wei-Yung, Tsai,Chih-Hsiang, Chung,Ya-Ting	Detachable Magnetic Stapler	B	New Taipei Municipal Zhong He Senior High School
Grace Chen, Brandon Lien	Multi-Functional Book Jacket	B	Taipei Fuhsing Private School
Wang, Hsiu-Ho, Yu-Wen, Lee, Wu, Yi-Hsin, Lee, Yuan-Chin	Coconut Tree Drip Stand	C	Yuanpei University Of Medical Technology
Zong-Han, Yang, Fan-Ning, Kuo, Siang-Jyun, Zhong, Chien-Chen, Huang, Mei-Ju, Su,	Intelligent Brace (IBRACE)	C	Yuanpei University Of Medical Technology
Yu-Chih, Lin, Shih-Yan, Syu, Chi-Fong, Tsai, Jih-Wei, Lin	Remote Control Assistive Device	C	Yuanpei University Of Medical Technology
Hsia, Kang, Jyun-Zuo, Lai, Ming-Shan, Jane, Kuo-Feng, Chou	Rolling Ball Driving	C	Yuanpei University Of Medical Technology
Yu-Chih, Lin, Yu- Lin, Yeh, Hai-Fong, Huang	The New Design Walking And Sitting Assistive Drip Stand	C	Yuanpei University Of Medical Technology
Te-Fu, Chiu, Yuan-Chiang, Chung, Chih-Cheng, Lin, Hwong-Chang, Liou, Chih-Ping, Hsu	Production Method of Longan Seed Polyphenol Extract	C	Yuanpei University Of Medical Technology, Cheng-Ching Hospital, Chung-Kang Branch
Tsai, Yi-Lin, Ho, Zu-Yu, Chen, Jia-Sin	ZIP-BAG	C	New Taipei Municipal Zhong He Senior High School
Yu-Hsuan, Huang, Deng-Yang, Huang, Cheng-Tsung, Yang, Shun-Chi, Peng, Li-Shu, Chang Chien,	Cloud Medical Science Classroom Of Bone	E	Yuanpei University Of Medical Technology
Min-Hsien, Lee, Rui-De, Chai, Yu-Fu, Chang	Convenient Grater	F	Yuanpei University Of Medical Technology

VIETNAM

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Phung Bao Ngoc Van, Vo Khac Hiap, Le Hoang, Pham Huy Thong, Ngo Ngoc Thanh	Novel Method for Optimal Photovoltaic Array Reconfiguration	A	Hus High School For Gifted Students, VNU University Of Science
Luu Truong Giang, Vu Ngoc Linh, Nguyen Duc Thanh, Phan Minh Giang, Hoang Thu Ha, Vu Minh Trang	Development of Mini-Column Chromatographic Method for Fast and Small-Scale Separation of Anticancer Acetogenins	C	Hus High School For Gifted Students, VNU University Of Science

EGYPT

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Mohamed Metwalli Khalifa Saleh	Extra Spotlights With Xenon Laser Lamps	E	
Ahmad Humaizi bin Hilmi, Bakri bin Bakar, Ahmed Mohamed Hadad Al Wahda	New Design of Rapman 3.1 using Boothroyd Dewhurst Methodology	F	

IRAN

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Kahtan S. Mohammed, Ali Basheer Azeez, Kamarudin Hussin, A. M. Mustafa Al Bakri and Azmi B. Rahmat	The Effect of The Tilting Angle of Steel Slab Sandwiched in Anti-Radiation Concrete Shield on Its Attenuation Level	D	

IRAQ

INVENTOR NAME	INVENTION / PRODUCT	CLASS	UNIVERSITY / SCHOOL
Kadhim Hussein Suffer, R. Usubatov, G. A. Quadir, K. A. Ismail	Three and Four Blades Rotor Vane Vertical Axis Wind Turbine Having Movable Vanes	A	
Abdul Mohaimen Wesam Faghi, Uda Hashim	Interaction of silicon nanowire and DNA: Partial Charge Calculation In Dual Organic Molecule	C	
Alhamza Munther, Rozmie R. Othman, Shahrul Nizam, Mohammed Anbar	Vital Random Forest: A New Efficient Network Traffic Classification Method of High Dimensional Data Traffic	E	

PARTICIPANT LIST

CATEGORY : UNIVERSITY

INSTITUT KEMAHIRAN TINGGI PERDA (PERDA-TECH)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Iskandar Haszman Bin Ismail, Muhammad Shahril Anuar Bin Sahbudin, Aiman Fadhlullah Bin Abdul Rahman, Nur Adibah Huda Binti Mazlan	PINATTSU MACHINE	F
Muhammad Amir Bin Muhammad Yusof, Nurzainatul Atiqah Binti Azlan, Hussain Bin Mohamad, Muhammad Helmi Bin Hayazi	FRESATURA'S SLICE	F

INSTITUT KEMAHIRAN MARA SIK, KEDAH

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Khazaimi Bin Halim @ Khalid, Ahmad Faiz Bin Abdul Manap	SMART GENERATOR	A
Mohd Najib Bin Mahmud	SMART SAFETY DISTRIBUTION BOARD	E
Normala Binti Mohamad	A NOVEL REFERENCE MODEL HALA GAMES FOR READING QURAN	E
Mohd Najib Bin Mahmud	INTELLIGENT STOVE	F

INSTITUT PENDIDIKAN GURU KAMPUS DARULAMAN

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Nabilah Bt Abdul Rahman, Nor Azura Bt. Ahmad, Ainur Rushaida Bt Roslan, Raja Dzirhazmee Bin Raja Mahadzir, Zainal Abidin Bin Saad, Saifudin Azam Shah Bin Ahmad, Muhammad Fariduddin Bin Wajdi Anthony	XPLOR-CITRA LESTARI (XCL)	G

POLITEKNIK MERLIMAU MELAKA

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Mohd Shafriyal B Md Hassan, Mohamad Redzuan B Abu Hassan, Azhan B Nawi	AGROTECH – PORT DICKSON RAILWAY	A
Ayu Wirdawati Bt Po'a , Siti Marlinna Chu Bt Mohd Rizal Chu, Zamali Bin Omar, Rahayu Binti Ali, Radzlan Al-Ahsraf Bin Oslan, Muhammad Hanif Bin Idris, Nur Syahaziyah Binti Hassan, Noraznee Binti Ahad	PORTABLE CEILING HOLDER	D
Muhammad Raqib Bin Aman, Muhammad Fauzi Bin Mohd. Esa, Muhammad Aminuddin Bin Hamzar, Mohamad Khaidir Bin Zainal, Nur Yamin Bin Mat Yasim , Abdull Sulaiman Bin Ismil, Mohd Fazli Bin Abd Rahman, Zamali Bin Omar	MULTIFUNCTIONAL HAMMER SET	D
Engr Abd Ghani Bin Rashed@Mohamed, Alvy Bartholomeus Philip, Umi Hani Binti Abdul Rahman, Nur Zahirah Binti Bachok, Norzalina Binti Amzah, Nurulnadiyah Binti Jamaludin, Nur Amalina Binti Mohd Musar	TeTANGGA- Lualan Lepas Diri Mangsa Kebakaran	D

POLITEKNIK SULTAN ABDUL HALIM MU'ADZAM SHAH (POLIMAS)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Norshila Binti Abu Bakar, Mohd Sumazlin Bin Mahamed, Wan Aziz Bin Wan Kadir, Muhamad Amir Bin Mohd Ederis, Mohamad Azrai Fitri Bin Mat Desa, Mohd Aiza Bin Ghazali, Nur Amalina Binti Abd Rahim	GRASS SLOPER	A
Ahmad Sabri Bin Mohamed, A'bdul Rahman Bin Awang, Zainil Husni Bin Ahmad Zinon, Syed Muhammad Asyraf Bin Syed Kamal Fardzi, Ibrahim Bin Abdul Rahman, Mohamad Fikri Bin Masor Alabi, Hasbi Bin Omar	AIREX V2	A
Siti Farizah Binti Abu Bakar, Muhammad Fadhil Bin Abdullah, Ku Nor Syifaa Binti Ku Ishak, Puteri Fatin Athira Binti Megat Noorzani, Nur Wardah Binti Omar	E-ATTENDANCE	E

POLITEKNIK TUANKU SULTANAH BAHYAH (PTSB)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Firdaus Mohamed Sahid, Syukrul Hassani Jamaludin, Fadzilah Kamarudin, Alias Umar, Junaidah Binti Ramli, Sheikh Mohamad Naim Shikh Shatir, Muhammad Ilman Elhami Marzuki	THE DEVELOPMENT AND APPLICATION OF SOLAR ENERGY SYSTEM TO COLLECT FLOATING DEBRIS	A
Syukrul Hassani Jamaludin, Firdaus Mohamed Sahid, Nor Hidayah Ismail, Inamul Aiman Aznam, Muhammad Ikhwani Abdul Adzim, Mohamad Nazirul Zulkifli, Nurhatiqa Zainal	BASIC ARDUINO TRAINING KIT	E

UNIVERSITI ISLAM ANTARABANGSA MALAYSIA, CAWANGAN KUANTAN

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Amir Abdul Razak, Zafri Azran Abdul Majid, Kamaruzzaman Soplan, Mohd Hafid Ruslan, Abdul Adam Abdullah, Muhammad Syarifuddin Bin Ahmad	COMPACT SOLAR DRYER SYSTEM WITH MULTILAYER CROSS ABSORBERS	A

UNIVERSITI UTARA MALAYSIA (UUM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Nurulwahida Hj. Azid@Azid, Mardzelah Makhsin, Norfaizah Ismail, Rozana Sulaiman, Ridzuan Hashim, Universiti Utara Malaysia	MALAYSIAN MULTIPLE INTELLIGENCE FINDER (MMIF)	E

UNIVERSITI TEKNOLOGI MARA CAWANGAN KELANTAN

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Mohd Akmal Faiz Osman, Mohamad Noorman Masrek, Mohamad Rahimi Mohamad Rosman	EMOTIONAL INTELLIGENCE PREDICTOR INDEX	G

UNIVERSITI TEKNOLOGI MARA (UITM), CAWANGAN KEDAH

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Marzlin Marzuki, Maznah Wan Omar, Mohd Rashidy Samsudin, Mohd Rozman Mohd Nasir, Suhardi Hamid, Mohamad Faizal Ab Jabal, Wan Faizah Wan Abdullah	AUTHENTIC CANDLE HOLDER	C
Maznah Wan Omar, Marzlin Marzuki, Mohd Rashidy Samsudin, Mohd Rozman Mohd Nasir, Suhardi Hamid, Mohamad Faizal Ab Jabal, Wan Faizah Wan Abdullah	CLASSIC POTPOURRI BAMBOO CONTAINER	G
Maznah Wan Omar, Asmadi Mohammd Ghazali, Mohd Noor Mohd Ali	MATH FOR AUTISM	G
Khalizani Khalid, Siti Hajar Mohd Hussain, Kardina Kamaruddin, Norwahida Musa	HUMAN CAPITAL JUMANJI (HuTMan) : THE HR BOARD GAME	G
Sazilah Mohd Saad, Marzlin Marzuki, Intan Marzita Saidon, Nadzri Ab Ghani	SHARING NEST PROGRAM	G
Marzlin Marzuki, Razanawati Nordin, Khairul Anuar Kamarudin, Jurina Ismail, Roshidah Saifei, Sazilah Mohd Saad, Azlan Abdul Rahman, Nur Afifah Ariffin, Kartini Kamaruzzaman, Azrul Shahimy Mohd Yusof	SPARKLE UP YOUR ENGLISH	G

UNIVERSITI TEKNOLOGI MARA CAWANGAN PULAU PINANG

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Nor Hanim Abd Rahman, Siti Balqis Mahlan, Rahmatullah Hussain, Sharul Azmi Samsudin	KENAF: MULTIPURPOSE ECOFRIENDLY-FOLDING MATTRESS	A
Muqhlisah Muhamad, Ahmad Zia Ul-Saufie Mohamad Japeri, Naemah Abdul Wahab, Sayang Mohd Deni	PREDICTION OF OZONE CONCENTRATIONS LEVEL USING ROBUST REGRESSION MODELS	A
Ahmad Zia Ul-Saufie Mohamad Japeri, Norsalwani Mohamad, Naemah Abdul Wahab, Salina Hamed, Fadzilawani Astifar Alias	AIR QUALITY DISPERSION PREDICTION TOOL	A
Mohamad Syafiq Bin Mohamad Sobri, Fazli Bin Bakri, Muhamad Azuddin Bin Mohd Ali, Muhammad Imran Bin Yusoff Shazilly, Nurakmar Binti Rosaili, Norsabrina Binti Sihab, Lylynyl Ismail	REMOTE CONTROLLED PESTICIDE SPRAYER MACHINE	E

UNIVERSITI MALAYA (UM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Nur Azah Binti Hamzaid, Nur Afiqah Binti Hashim	DEVELOPMENT OF WHEELCHAIR SEATING TRAINING (WSET) FOR PARAPLEGIC SPINAL CORD INJURY	B
Abbie Hossanna Anak Ruang, Loo Chu Kiong	MyFAT2FIT-MOBILE APPS FOR OBESITY PREVENTION	C
Lee Kar Mun, Tan Maw Pin, Nur Azah Hamzaid	TALKMATE-THE ELECTRONIC COMMUNICATION DEVICE FOR ELDERLY PATIENTS WITH SPEECH DISABILITIES	C
Lai Khin Wee, Goh Siew Li, Jerry Choon Cheah Wee, Yong Ching Wai, Ong Zhi Hui	KNEE SOUND BASED DETECTOR FOR OSTEOARTHRITIS DIAGNOSTICS	C
Lai Khin Wee, Goh Siew Li, Ong Zhi Hui, Yong Ching Wai, Jerry Choon Cheah Wee	KNEE SYNOVIAL FLUID PRESSURE MEASUREMENT SYSTEM FOR OSTEOARTHRITIS ASSESSMENT	C
Nurhazirah Binti Mohd Ridzan, Fatimah Binti Ibrahim, Tan Maw Pin, Ridgwan Welfred	WIRELESS BED ALARM SYSTEM FOR ELDERLY	C
Nor Adibah Binti Mohd Khir, Mas Sahidayana Binti Mohktar, Fatimah Binti Ibrahim	ALARM SYSTEM FOR WANDERING ELDERLY	C
Foo Yoke Yin, Ting Hua Nong	BABY MONITORING DEVICE FOR INCUBATOR	C
Meldi Suhatri, Mohammad Hossein Mehrabi, Ismail Othman, Hamed Khatibi, Puteri Azura Sari, Amir Fateh	ROTARY RUBBER BRACE DAMPER (RRBD)	D
Meldi Suhatri, Hamed Khatibi, Nasim Sarrafi Aghdam, Huzaila Bin Hashim, Amir Fateh, Seyed Mohammadreza Ghadiri	ROTARY RUBBER CABLE DAMPER (RRCD)	D
Meldi Suhatri, Hamed Khatibi, Nor Hafizah Binti Ramli @ Sulong, Azlan Bin Adnan, Amir Fateh	ROTARY RUBBER DAMPER (RRD) FOR BEAM-COLUMN CONNECTION	D
Nur Baiti Afini Binti Normadhi, Nor Liyana Mohd Shuib, Por Lip Yee, Maizatul Akmar Binti Ismail, Vimala Balakrishnan	BOOK SPOT!	E
Nurnatasha Sabrina, Gan Chin Lay, Vimala Balakrishnan, Nor Liyana Mohd Shuib, Por Lip Yee, Maizatul Akmar Ismail, Nurnazlita Hussin	IMMAP: INTERACTIVE MOBILE MESSENGER APPLICATION	E
Tan Bing Hoong, Nornazlita Hussin, Hannyyzura Afal, Maizatul Akmar Ismail, Vimala Balakrishnan, Por Lip Yee	AUGMENTED PRODUCT DEMONSTRATION	E
Omar Mokhtar Bin Che Othman, Por Lip Yee, Vimala Balakrishnan, Maizatul Akmar Ismail, Nor Liyana Mohd Shuib, Nornazlita Hussin	MITIGATION OF SHOULDER – SURFING ATTACK ON GRAPHICAL PASSWORD USING TCS METHOD	E
Sarah Nurhanis Bt Razak, Maizatul Akmar Ismail, Vimala Balakrishnan, Por Lip Yee, Nornazlita Hussin, Nor Liyana Mohd Shuib	ANNYEONG : FUN LEARNING OF KOREAN LANGUAGE	E

UNIVERSITI MALAYSIA KELANTAN (UMK)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Muhamad Anis Bin Shamsudin, Muhammad Iqbal Ahmad, Mohammad Redzuan Bin Mohammad Darus, Sarizam Bin Mamat	Bio (EFB)	A
Bawani Selvam, Mohammed Abdus Salam, Mazlam Bin Mohamed, Farah Nasharah Ab Rahman, Wan Hartini Hayati Ab Rahman, Nurul Akma Jamaluddin, Nur Ashikin Salehhudin, Nurfarahreen Mahad, Anis Hayati Anuar, Imran Sazari	ECO-REPEL	A
Ahmad Yusuf Mohd Kamil, Suhaimi Othman, Fatimah Kayat	'CORM-TECH' – INNOVATIVE TECHNIQUE FOR MASS PROPAGATION OF BANANA SEEDLINGS	A
Ahmad Yusuf Mohd Kamil, Suhaimi Othman @ Osman	'NUPSYS' - MECHANIZED AND AUTOMATED NURSERY PROPAGATION SYSTEM FOR MASS PROPAGATION OF QUALITY PLANTING MATERIALS	A
Mohammad Amizi Ayob, Assis Kamu, Nur Izzaty Iqlima Norazman, Bonaventure Boniface, Abdul Rahim Awang	PARTICIPATION OF OIL PALM SMALLHOLDERS IN MANAGING GANODERMA DISEASE (BASAL STEM ROT) IN WEST MALAYSIA	G

UNIVERSITI MALAYSIA SARAWAK (UNIMAS)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Nur Farhana Binti Abdul Kadir	POTENTIAL APPLICATION OF SPIRAL BLADED VERTICAL AXIS WIND TURBINE IN ENERGY HARVESTING	A
Mohd Rahmat Bin A Rahman	STUDIES ON MOLTEN METAL BEHAVIOR AT HIGH PRESSURE DIE CASTING	B
Wong Lee Kwang	ANALYSIS OF AEROPLANE WINGLET ON PROPELLER MICROFLUIDICS FLOW TECHNOLOGY IMPROVEMENT IN MEDICAL INDUSTRY APPLICATION	B
Yana Shaheera Binti Yunos		C
Mohd Azrin Bin Mohd Said, Ahmad Shazrin Mohd Ghazali, Abdullah Yassin, Shahril Osman, Hishammudin Afifi Huspi, Mohd Fareez Edzuan Abdullah, Ibrahim Yakub	APHIS PERFORMANCE	F
Mohd Azrin Bin Mohd Said, Mohammad Aliff Bin Abd Rahman	HUMAN WORKING POSTURAL IN MANUFACTURING	F
Mohd Azrin Bin Mohd Said, Ahmad A'Imullah Bin Ab Malek	IMPROVEMENT OF MANUFACTURING LAYOUT DESIGN	F
Mohd Azrin Bin Mohd Said, M. Shahidul Islam, Abdullah Yassin, Syed Tarmizi Syed Shazali, Ahmad Azlan Fadzli Khairi, Hishammudin Afifi Huspi	MODELLING AN ERGONOMIC SEAT	F
Herbert Ian Bin Juhan	NOISE REDUCTION TECHNOLOGY FOR BLADELESS FAN	F

UNIVERSITI PUTRA MALAYSIA (UPM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Tan Siong Biao, Rosnah Shamsudin, Mohd Afandi P. Mohammed, Nur Aliaa Abdul Rahman	SESAME CRACKER MACHINE	A
Omar Faruqi Marzuki, Azmin Shahrine Mohd. Rafie, Fairuz Izuddin Romli	ALTERNATIVE GREEN ENERGY HARVESTING SYSTEM USING MAGNUS WIND TURBIN	A
Farzad Hejazi, Mohd Saleh Jaafar, Mitra Mirnezhad, Amir Fateh, Abang Abdullah Abang Ali	THREE DIMENSIONS WEB BASED STRUCTURAL ANALYSIS SOFTWARE	D
Farzad Hejazi, Amir Fateh, Mohd Saleh Jaafar, Azlan Bin Adnan	ADAPTIVE STIFFNESS BRACING SYSTEM	D
Lim Bo Yuan, Rosnah Shamsudin, Robiah Yunu, B.T. Hang Tuah Baharudin	A MULTISTAGE JATROPHA FRUIT DECORTICATOR	F

UNIVERSITI PERTAHANAN NASIONAL MALAYSIA (UPNM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Loong Men Chau, Muhammad Zulfahmi Bin Mohd Shan	TIME BASED PASSWORD LOGIN SYSTEM	E
Siti Nur Soleha Binti Adam, Syafiqah Yusra Binti Mohamad	LIWANMS (GREEN) : LIGHT WEIGHT ANDROID NETWORK MONITORING SYSTEM (GREEN)	E

UNIVERSITI PENDIDIKAN SULTAN IDRIS (UPSI)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Ahmad Saifuddin Bin Ahmad Termizi	SWITCH OFF	E
Karthik A/L Manoharan	CoolGT SYS	E

UNIVERSITI SAINS MALAYSIA (USM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Mohamad Nasran Bin Nasehir Khan, Mohd Remy Rozainy Bin Mohd Arif Zainol	INTEGRATED SMART TRAPPER SYSTEM (InSmarts)	A
Nurul Hasliza Bt Hasanuddin, Nor Sa'adah Bt Mamat, Noor Hana Hanif Abu Bakar, Tan Wei Leng, Mohamad Abu Bakar	NATURAL RUBBER-AG CATALYTIC MEMBRANES	A
Mohd Mahadi Halim, Omar F Farhat, Naser Mahmoud Ahmed, Mat Johar Abdullah	GIANT ENHANCEMENT IN UV-BLUE PHOTODETECTOR RESPONSE OF ZnO-NANORODS ON SILICON SUBSTRATE USING CHEMICAL BATH METHOD	E
Mohd Ashraf Mohamad Ismail, Fadzli Mohamed Nazri, Rais Yusoh, Mohd Taib Yaacob, Ahmad Halmi Ghazali, Ng Soon Min, Tan Che Guan	DYNAMIC-FLEXIBLE SEISMIC SOURCE FOR SHALLOW SEISMIC SURVEYS	F
Muhammad Redho Bin Zakaria, Nur Sabahiah Bt Abdul Sukor	MAPPING TECHNIQUE TOWARDS RILOFOM (RISK LOCATION FOR MOTOR) MOBILE APPLICATION	G

UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Aeslina Abdul Kadir, Mohd Helmy Abd Wahab, Mohd Razali Md Tomari, Mohamad Hairol Jabbar, Norzila Othman	SMART RECYCLE BIN	A
Joewono Prasetyo, Mohd Erwan Sanik, Munzilah Md Rohani, Kamaruddin Ambak, Basil David Daniel, Abdul Mutalib Leman, Mohd Hamidun Sahimin	SMART LIGHT – MOBILE TRAFFIC LIGHT	B
Salman Bin Salim, Ahmad Hakimi Mat Nor, Mohd Erwan Sanik, Muhammad Ejaz Haziq Mahmood, Nor Hanani Hasan Nordin	BAMBOO PANEL TECHNOLOGY	D
Mohd. Fikhril Ariffin, Zarina Tukiran, Mohd. Helmy Abd Wahab, Suhaila Sari	BLUETOOTH-BASED HOME AUTOMATION SYSTEM FOR DISABLED PEOPLE	E

UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Mohamad Na'im Mohd Nasir, Muhammad Zuhairi Mohamad Azhari, Hazriq Izzuan Jaafar, Mohamad Fani Sulaima, Mohamad Faizal Baharom, Zul Hasrizal Bohari	PORTABLE HEAT ENERGY HARVESTER	A
Muhammad Afiq Mohd Pauzi, Muhammad Said Bin Roslee, Zul Hasrizal Bohari, Fauzal Naim Zohedi, Mohd Hafiz Jali	P-MEG (PERPETUAL MECHANICAL ENERGY GENERATOR)	A
Sharifah Yuslinda Syed Hussein, Hazriq Izzuan Jaafar, Zamani Md Sani, Chan Zhi Hao, Tarmizi Ahmad Izzudin	SHADOW ACTIVATED MOTION SOLAR TRACKER	B

Wan Akmal Syahiran Bin Wan Ahmad, Zul Hasrizal Bohari, Mohamad Na'im Mohd Nasir, Syahrnizzam Hassin, Mohamad Fani Sulaima	TINTED PV FOR HYBRID & ELECTRIC CAR	B
Muhammad Thaqif Bin Abdul Razak, Zul Hasrizal Bohari, Tarmizi Ahmad Izzudin, Wan Mohd Bukhari Bin Wan Daud	PORTABLE KINETIC ENERGY GENERATION	B
Akmal Afiq Bin Nazmudi, Muhammad Amirul Hakim Bin Kamaluddin, Rusydi Amir Bin Abd Razak, Raziyah Maznah Binti Abdul Munaf, Ismail Bin Abdullah, Sabiq Saifuddin Mohamad, Nur Izzati Zolkifri, Nor Hafiz Nor Rahman, Musa Yusup Lada, Mohamad Riduwan Md Nawawi, Johar Akbar Bin Mohamat Gani	SMART WIRELESS INDICATOR SMART WIRELESS INDICATOR SAFETY HELMET (S-WISH)	B
Mohamad Na'im Mohd Nasir, Mohamad Fani Sulaima, Sabiq Safiuddin Mohamad, Mohd Hafiz Jali, Akmal Afiq Nazmudi, Musa Yusup Lada, Azhan Ab Rahman, Hazriq Izzuan Jaafar, Mohd Khanapiah Nor, Mohd Redzwan Mahat, Nur Afiqah Abd Rahman	TADA-Chi	C
Noor Iriinah Bt Omar, Yusliza Bt Yusuf, Nuur Salfarina	BIOPLASTIC FROM FOOD WASTE	C
Mohd Hafiz Jali, Mohamad Fani Sulaima, Mohamad Na'im Mohd Nasir, Zul Hasrizal Bohari, Wan Mohd Bukhari Wan Daud, Muhammad Faris Hamdani, Mohamad Aqil Mohd Fuad	DENGUE CONTROL SYSTEM USING MOSQUITO LARVAE KILLER AT STORAGE TANK	C
Mohd Hafiz Jali, Rozaimi Ghazali, Norafizah Abas, Tarmizi Ahmad Izzudin, Hazriq Izzuan Jaafar, Muhammad Nafis Maznan, Nabil Syafiq Razali, Muhamad Khairul Alias	REAT HAND	C
Mohamad Haniff Bin Harun, Muhammad Faraq Bin Ibrahim, Aminurrashid Bin Noordin, Muhammad Salihin Bin Saeala, Muhammad Harraz Bin Che Harun, Mohd Fazli Bin Mohd, Kassim Shaikh Uqhalil Ash-Qhalani, Noor Syazwan Bin Noor Azizi, Muhammad Erwansyah Bin Abdullah	PORTABLE O-REF SYSTEM	E
Nur Azziana Afiffie Binti Azman, Mohd Faizal Bin Zulkifli, Farees Ezwan Bin Mohd Sani @ Ariffin	CHILD SAFETY NOTIFICATION SYSTEM	E
Siti Fairuz Binti Pungot, Aiman Zakwan Bin Jidin, Noor Mohd Ariff Bin Brahlin	e-QURAN FOR SOLAT	E
Muhammad Hafizuddin Bin Mustafa, Ibrahim Bin Abu Bakar, Khairul Azha Bin A Aziz, Nik Mohd Zarifie Bin Hashim	SMART WHEELCHAIR CONTROLLER	E
Muhammad Sufyan Safwan Bin Mohamad Basir, Abdul Rahim Bin Abdullah, Nur Hazahsha Binti Shamsudin, Nabilah Binti Mat Kassim	HARMONIC SOURCE IDENTIFICATION SYSTEM	E
Nur Adila Binti Misdar, Abdul Rahim Bin Abdullah, Nur Hazahsha Binti Shamsudin	SOLAR POWERED SPEED WARNING SYSTEM	E
Syahrul Azwan B, Sundi @ Suandi, Mohd Razali Bin Yunos, Mohd Razi Bin Abdul Mutalib, Bahiyuddin Bin Ahmad	SMART CHAIR	F
Mariam Md Ghazaly, Chong Shin Horng, Chin Yuen Piau, Javad Safaei, Keek Joe Siang	HIGH SHEAR FORCE & HIGH SPEED ROTOR-STATOR HOMOGENIZER PROTOTYPE	F

UNIVERSITI TEKNOLOGI MALAYSIA (UTM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Razauden Bin Mohamed Zulkifli, Ammar Ibrahim, Azli Bin Yahya, Farediah Binti Ahmad, Amir Husni Bin Mohd Shariff	FORMULATION OF WOUND HEALING CREAM FROM ACALYPHA INDICA LINN EXTRACT	C
Razauden Bin Mohamed Zulkifli, Siti Nurbainun Binti Parjo, Azli Bin Yahya, Farediah Binti Ahmad, Amir Husni Bin Mohd Shariff	ANTI-DANDRUFF HAIR CREAM WITH KAEMFERIA GALANGAL L. EXTRACT	C
Razauden Bin Mohamed Zulkifli, Nurul Jannah Binti Md Arif, Azli Bin Yahya, Farediah Binti Ahmad, Amir Husni Bin Mohd Shariff	ANTI-AGING CREAM WITH NATURAL RESVERATROL FROM PERLIS GRAPEVINE	C
Tan Kar Wei, Muhamad Bakhtiar Bin Mohd Yudin, Hanis Camellia Binti Muhar, Fauzan Khairi Bin Che Harun	FABRICATION OF NOVEL GAS SENSOR MATERIAL FOR FUTURE ELECTRONIC NOSE	C
Maheza Inna Mohamad Salim, Kharulnisa Zulkifri, Nurul Fitriah Mansor, Lai Khin Wee	SMART MEDICATION ALERT BOX	C
Azli Bin Yahya, Kartiko Nugroho, Norhalimah Binti Idris, Nor Hisham Bin Hj Khamis, Razauden Bin Mohamed Zulkifli, Kamal Khalil, Muhammad Arif Bin Abdul Rahim, Mohammed Rafiq Bin Dato' Abdul Kadir	ADVANCE GEL ELECTROPHORESIS CONTAINER	C
Azli Bin Yahya, Fauzan Bin Che Khairi, Kartiko Nugroho, Nursyahida Izzati Binti Zakaria, Nur Nazilah Binti Zainal Abidin	BRAINWAVE CONTROL SKATEBOARD	E

UNIVERSITI MALAYSIA PAHANG (UMP)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Sathis A/L Vatumalai, Baarath A/L Kunjuni, Madan Varmma A/L Suparmaniam, Sasikala A/P Ganaisan, Sharmalla A/P Subramaniam	OPTIMUM SOLAR CELL IMPLEMENTATION USING DC-DC BOOST CONVERTER CONTROLLED BY FUZZY LOGIC CONTROLLER	A
Afiq Hafizi Bin Azizi, Azlan Bin Razak, Mohamed 'Afif Bin Zainurin, Weerana A/P Eh Kan, Jamil Bin Roslan, Hafizah Ramli, Ruzinah Isha	PHOTRECS FOR SEAWATER DESALINATION	A
Chan Han Jie, Cheng Chin Kui, Wong Nyap Xiang, Lum Sin Wan, Tan Sze Yee	SYNTHESIS AND CHARACTERIZATION OF EFB CLINKER SUPPORTED NICKEL AND COBALT CATALYSTS FOR METHANE DRY REFORMING	A
Kavineshshen A/L Selvarajah, Koh Rui Shuan, Vo Nguyen Dai Viet	METHANE DRY REFORMING OVER SEMICONDUCTOR-OXIDE SUPPORTED NICKEL CATALYSTS	A
Lau Kun Lu, Mohd Affandi Mohd Ali, Cheng Chin Kui, Rosli Mohd Yunus, Jolius Gimbut	BIODIESEL PRODUCTION IN A CONTINUOUS MICROWAVE ASSISTED REACTOR (CMAR) CATALYZED BY LIMESTONE BASED CATALYST	A
Nurul 'Adilah Bt Rosnan, Said Nurdin, Siti Farhana Bt Haron, Nur S. Ghazali, Noorsuria Suradi	IMPREGNATED MUSSEL SHELL (IMS) FOR CASTOR METHYL ESTER (CME) SYNTHESIS FUTURE ENERGY	A
Nurul Atikah Binti Ahmad Khan, Nurul Nadia Binti Mohtar, Naasiba Binti Ideris	THE POTENTIAL OF HeMeR SYSTEM FOR HEAVY METAL REMOVAL	A
Chow Kean Choong, Zulkifli Bin Ahmad @ Manap, Idris Mat Sahat	INTELLIGENT MONITORING AND ANTI-THEFT SYSTEM USING ARDUINO UNO AS MICROCONTROLLER	B
Nur Lyana Bt Zulkifli, Nur Syamim Bt Safarudin, Hadi Bin Manap	FTEK UNIBIKE	B
Nurul Amira Binti Ahmad Yusof, Nur Aminatulmimi Binti Ismail	BLUE PEA (BUNGA TELANG) FOR NATURAL BLUE COLORANT IN FOOD INDUSTRY	C
Raguvaran A/L Thillai Nathan, Teh Gia Xui, Nathaniel Enock Selladurai, Jaya Vejayan A/L Palliah	SNAKE VENOM: A NOVEL PROTEASE SOURCE FOR CONVERTING MILK TO CURD IN THE CHEESE MAKING INDUSTRY	C

Suguna A/P Jeganathan, Arun Gupta, Priyaah A/P Kumaran	FORMULATION OF HAIR STRAIGHTENING CREAM FROM KERATIN PROTEIN	C
Nor Natashah Ashikin Bt Mohd Nasir, Nur Aminatulmimi Binti Ismail, Jamil Bin Roslan	STUDY OF MURRAYA KOENIGH LEAVES' ESSENTIAL OIL	C
Wong Fei Yong, Tan Choon Mong, Zulkifli Bin Ahmad @ Manap, Idris Bin Mat Sahat	DEVELOPMENT OF JOINT ANGLE MEASUREMENT DEVICE	C
Jeevan Nair A/L Vasudevan, Arun Gupta, Dinesh Kumar Gunasagaran	NOVEL WOOD COMPOSITE WITH HIGHER FIRE RETARDANCY BY USING MULTI-WALLED CARBON NANOTUBES (MWCNTS)	D
Nurul Aliaa Bt Abdul Rahman, Mohammad Dalour Hossen Beg, Muhammad Remanul Islam, Nur Atiqah Binti Hisyam	BIORESIN FROM WASTE COOKING OIL	D
Ashwindran Naidu A/L Sanderasegaran, Sarindran Ramayes, Nurul Uzran Bin Nadzar, Muhammad Iqtizam Bin Zainuddin, Amir Bin Aziz, Januar Perianngan Siregar	INNOVATIVE FLOOD BARRIER MECHANISM	D
Mohamed Ashraf Bin Mohamed Noor, Ahmed Fitri Bin Razali, Ayib Rosdi Bin Zainun	MODERN GARDENING SYSTEM	E
Mohd Irshad Shafiq Bin Md Zamri, Noraniza Binti Samat	INTERACTIVE SOLAT COURSEWARE USING AUGMENTED REALITY TECHNOLOGY (I-SOLAT)	E
Muhammad Taufiq Bin Mohd Safwan Chin, Azma Binti Abdullah, Hassanul Hakimi Bin Ahmaddin	PETROL MONITORING SYSTEM IN STORAGE TANK	E
Sangitha A/P Elango, Mazlina Abdul Majid	i-cook! MOBILE APPLICATION	E
Yogendran A/L Velaeidom, Ruzaini Abdullah Arshah	INTELLIGENT COURSE MANAGEMENT SYSTEM (ICMS)	E
Farah Emmelia Binti Abu Bakar, Mohd Tajul Rosli Bin Ahamad, Wan Muhamad Izzudin Bin W Ibrahim, Akhtar Razul Bin Razali, Lugman Hakim Bin Ahmad Shah	DESIGN AND FABRICATION OF TABLE TOP FRICTION STIR WELDING MACHINE	F
Fatin Nor Amira Bt Ashad@ Arshad, Tang Thong Leik, Saiful Anwar Bin Che Ghani	IN-SITY MEASURING OF CUTTING TOOL TEMPERATURE IN SUSTAINABLE MACHINING	F
Mak Yip Khuam, Bastian Wibar Bin Momang, Hj Nik Mohd Zuki Bin Nik Mohamed, Gigh Priyandoko	DEVELOPMENT OF A PORTABLE QUALITY - CONFIRMATION INSPECTION UNIT FOR AUTOMOTIVE CHECKING FIXTURE	F
Nurnabila Binti Adnan, Nadia Atika Binti Asmuni, Zulkifli Bin Ahmad@Manap, Idris Bin Mat Sahat, Mohd Nordin Bin Sulaiman	FABRICATION OF SMART DOOR ACCESS	F

UCSI UNIVERSITY

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Chang Jang Sen, Hoh Kah Ben, Lim Yi Jean, Lok Pui Yue, Kho Lik Yeh, Ng Han Ject, Suchithra Thangalazhy-Gopakumar, Tan Khang Wei, Tan July	COMPARISON OF BIOMASS PRETREATMENTS FOR A SUSTAINABLE AND ECONOMICAL PRODUCTION OF BIO-ETHANOL	A
Shargunan, Dheenakarhan, Pua Heng Kok, N.M Mubarak	PRODUCTION AND APPLICATION OF NOVEL MAGNETIC BIOCHAR FOR DYE REMOVAL AND CO2 ADSORPTION	A

ASIA E UNIVERSITY

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Veera Pandiyan K.S., Ahmad Shahari Budin Bin Dato' Hj Abd Aziz, Muhammad Kasfi Bin Ramli, Noraini Bt Daud	ALARM SYSTEM DEVELOPMENT FOR SEMICONSCIOUS DRIVERS WHILE DRIVING (WAKE ME UP)	E

UNIVERSITI TEKNOLOGI PETRONAS (UTP)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Ezerie Henry Ezechi, Emmanuel Olisa, Shamsul Rahman Bin Mohamed Kutty, Nasiman Sapari, Mohamed Hasnain Isa, Amirhossein Malakahmad	GARDENIA CARINATA SHELL – A NOVEL ECO-FRIENDLY MULTI-PURPOSE MATERIAL FOR WASTEWATER TREATMENT: FROM WASTE TO WEALTH	A

UNIVERSITI KUALA LUMPUR - MALAYSIAN INSTITUTE OF MARINE ENGINEERING TECHNOLOGY (UNIKL MIMET)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Muhammad Kasfi Bin Ramli, Mustaffa Bin Ali, Mohd Sharizal Bin Abd Salam, Muhammad Zulzaimie Bin Ahmad Fadzillah, Amir Hassan Bin Mohd Subki, Nik Mohd Nur Iman Bin Nik M. Angsari	FUEL INJECTOR TESTER (DIY)	B
Md Redzuan Zoolfakar, Nurul Ruqaiyah Binti Mohd Radzif, Wan Muhammad Syafiq Bin Norizan	THE BALLAST WATER SIMULATION SYSTEM	B
Md Redzuan Zoolfakar, Mohd Fuad Bin Mohd Saad	SHIP DESIGN VIRTUAL PROTOTYPING APPLICATION	B
Azman Ismail, Darullhsan Abdul Hamid, Muhammad Afiq Mohd Shuhaimi, Mohd Saidi Mohd Saad, Muhammad Tuah Sarhan Md Said, Ahmad Fatih Azhar, Bakhtiar Ariff Bin Baharudin	HYBRID HULL	D
Muhammad Azrie Husainy Bin Mohd Jasri, Mohd. Afendi Bin Rojan, Azman Ismail, Hisyamuddin Bin Rahim	NATURAL ADHESIVE FROM RECYCLE POLYSTYRENE	D
Ahmad Makarimi Bin Abdullah, Muhammad Fadli Bin Ghani, Atzroulnizam Bin Abu, Mohd Saidi Bin Hanaffi, Mohamad Razif Bin Abdul Razak, Abdul Rauf Abdul Manan, Nathalie Mundy Anak Harry	SMART APPLIANCE CONTROL SYSTEM INTEGRATED WITH WORLD WIDE TELCO COMPANY	E

UNIVERSITI KUALA LUMPUR – MALAYSIAN SPANISH INSTITUTE (UNIKL MSI)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Sharmiwati Binti Mohammed Sharif, Mohd Hazwan Bin Abdul Rahhim, Mohd Nazmi Bin Abdul Hamid, Anis Syamimie Binti Mazlan, Azmiza Binti Zakariya, Noorhelinahani Binti Abu Bakar	ORGANIC FILTER : FROM LEACHATE TO CLEAR WATER	A
Mohd Nurhidayat Bin Zahalem, Mohd Riduan Bin Ibrahim, Mohamad Nasir Bin Bakar, Asrulwadi Bin Ismail, Aznizam Bin Abdullah, Mohd Aizuddin Bin Abdul Razak, Rahmattullah Bin Suleiman	BRAKE PISTON REMOVAL TOOL (BPR TOOL)	B
Norzalina Othman, Nurazlin Mohd Yaakop, Muhammad Raihan Bin Hisham, Ahmad Faizi Bin Ahmad Bakri	ANDROID VEHICLE CONTROL SYSTEM	B
Muhamad Husaini Bin Abu Bakar, Mohd Shahril Radzman Bin Shaharom, Amir Aminurrasid Bin Senik, Alif Aizat Bin Azman, Muhamad Termizi Bin Muhamad, S. Muhammad Faruq Bin S. Mohd Fahmy	THE NATURE FOR THE FUTURE : PALM OIL BASED MAGNETORHEOLOGICAL BRAKING SYSTEM	B
Zulkarnain Bin Abdul Latiff, Khirul Hizad Bin Ahmad, Mohd Faizal Bin Osman, Asrulwadi Bin Ismail, Nik Zakiyamani Bin Nik Mohamed	CONVENIENT STEP LADDER (COSTEP)	D
Munawir Bin Rizwan, Mohd Riduan Bin Ibrahim, Mohammad Izzuddin Bin Ariffen, Wan Ahmad Fadhli Bin Wan Abdul Rasid, Muhammad Saifullah B Ismail, Muhammad Amirul Haziq Bin Rosli	FIRE HOSE WINDING DEVICE	F

INTERNATIONAL COLLEGE OF AUTOMOTIVE (ICAM)

INVENTOR NAME	INVENTION/PRODUCT	CLASS
Noraishah Binti Mohamad Noor, Azian Binti Hariri, Nuur Azreen Binti Paiman, Mohd Azam Bin Musa, Zaidi Bin Hj Awang Long, Fatin Haziqah Binti Ja'afar, Noor Aisyah Binti Abd Wahab, Noor Atiqah Abd Wahab	B2N IONIZER : INITIATIVE FOR INDOOR WELDING ENVIROMENT	A
Nor Syukriah Binti Khalid, Muhammad Asyraf Bin Yusni, Muhammad Farhan Solihin Bin Norkhazli, Suhaimi Bin Amran	SPECIAL TOOL FOR SPARK PLUG	B
Muhamad Abdul Fatah Bin Muhamad Mukhtar, Wan Mohd Zaki Bin Wan Mansor, Muhamad Zainudin Bin Mohd Nasir, Muhammad Zulhilman Bin Zulfikri	BRAKE PAD SENSOR	B
Mohd Zaidi Bin Azir, Muhammad Syakirin B. Sahidan, Mohamad Faiz Bin Missman, Mohd Fikhybin Abdullah	ADJUSTABLE SMART LUG WRENCH	B
Nur Hanis Binti Kamaluddin, Nurul Aini Binti Othman, Zetty Nur Aida Binti Ahmad Zahir, Nurul Wajihah Binti Manaf, Muhammad Syafiq Ikhwan Bin Mohd Hashim	IMPLEMENTING MOBILE STUDENT PORTAL IN ICAM	E
Muhamad Abdul Fatah Bin Muhamad Mukhtar, Syerida Ezira Binti Januar, Syaza Nadhira Binti Shalizam, Nurfarhana Binti Ahmad Supien	AUTOMATIC WI-FI GUIDED CART FOR PRE-DELIVERY INSPECTION LINE	F
Norfazlinda Binti Hairani	IMPACT OF SERVICE QUALITY TOWARDS CUSTOMER LOYALTY	G
Maizatul Akmar Bt Mohd Rasli, Raja Siti Nurhidayah Bt Raja Idris, Syahirah Bt Samad, Nurul Anis Bt Zulkipli, Nurarifa Bt Mohd Zubir	FACTORS AFFECTING COLLEGE STUDENT RETENTION	G

CATEGORY : HIGH SCHOOL

NAME ON CERTIFICATE	PRODUCT'S TITLE	CLASS	INSTITUTION
Mohd Faize Bin Masstapar, Mohd Hafizie Bin Mohd Hafandi, Ahmad Ikmal Alif Bin Anuar Mushaddad, Mohammad Azhar Bin Abdullah, Che Wan Muhammad Badrul Amin Bin Wan Mohd Nasrudin	TRIP INDICATOR LOCATION	E	IKBN SERI ISKANDAR, PERAK
Ikbn Seri Iskandar, Aiman Syakir Bin Mohd Ruzi, Low Fu Seng, Mohammad Firdaus Bin Ramlee, Mas Mira Suhana Binti Sahepuddin, Nur Natasha Asykin Binti Gornomo, Nuraziatul Azwa Bt Abd Razak, Adiniah Binti Muhamad Radzai	MINI STUDIO	E	IKBN SERI ISKANDAR, PERAK
Ikbn Seri Iskandar, Muhammad Iqmal Bin Alias, Mohamad Fadhli Bin Abdul Halim, Hazran Bin Hamdan, Sappa Bin Sampe, Zamzarina Binti Osman	FT3 (FLY TRAPPER 3)	E	IKBN SERI ISKANDAR, PERAK
Mohamad Shukri Zainol, Mohd Ali Bin Yasin, Mohamad Alim Bin Nulhakim, Hazwan Bin Husin, Mohd Rizal Bin Isa, Muhammad Syahmim Bin Shamsul Nizar, Azizah Binti Ahmad	NO ELECTRIC DISTURBANCE UNIT (X.E.D. 2)	E	ILP JITRA, KEDAH
Muhammad Darul Redhuan B Mohamad Rawi, Mohd Azizie B Zainon Alias, Mahmad Bin Hanapiyah, Mohd Nor Khuzairi Bin Abd Aziz, Zulkifli Bin Adnan	OXY-ACETYLENE PIPE CUTTING MACHINE	F	ILP JITRA, KEDAH

Noridan Bin Ismail, Zakaria Bin Sa'aban, Shanorizuan Bin Mohd Shariff, Khairil Amir Bin Ramli, Mohd Saiful Osman Bin Idris, Low Boon Poh, Hamdan Bin Rejab, Mohd Izzat Muzzammil Bin Shaarin, Amirul Fitri Bin A Badrul Hisham, Mohd Ridhwan Bin Abdullah	ECO-ENERGY : SUMBER BEKALAN KUASA YANG MENJIMATKAN	B	ILP JITRA, KEDAH
Ahmad Kamil Bin Mustafa Kamal Basha, Mohamad Hafizudin Bin Ab Wahab, Nasiruddin Bin Suratman, Mohd Fadzli Bin Md Awal, Azman Bin Hussin, Sofuddin Bin Mohamad Isa	PORTABLE FRUIT SLICES WITH COOL CABINET	E	ILP KEPALA BATAS, PULAU PINANG
Noor Syafiq Ikhwan Bin Noor Sallehin, Muhamad Hafizudin Bin Tuklman, Mohamad Amirul Izhm Bin Zakaria, Mohd Zulwali Merawi Bin Mohamad, Muhammad Izuan Bin Soid, Azman Bin Hussin, Ulul Azumi Bin Abdul Hamid	PORTABLE RECHARGEABLE THERMAL STORAGE BASKET FREEZER	E	ILP KEPALA BATAS, PULAU PINANG
Muhammad Danial Bin Mat Sidek, Salahudin Bin Mahmad, Mohamad Azuan Bin Omar, Muhammad Shahidan Bin Harun, Azman Bin Hussin, Abdul Rani Bin Shariff	HOT WATER THERMAL STORAGE SYSTEM	E	ILP KEPALA BATAS, PULAU PINANG
Muhammad Zairul Amir Bin Ismail, Mohammad Safwan Bin Mohammad, Mohd Gadaffi Bin Zamberi, Saad Bin Din, Institut Latihan Perindustrian Kepala Batas	SMART KEY MANAGEMENT SYSTEM	E	ILP KEPALA BATAS, PULAU PINANG
Shaiful Bahri Bin Mustafa, Anis Afifah Bt Azman, Afina Izzati Bt Redzuan	KAPOK BOOM	A	KISAS, SELANGOR
Shaiful Bahri Bin Mustafa, Muhamad Ali Bin Mohd Yusoff, Mohammad Hafiz Bin Mohd Zaki	SASIC SOLAR POWER BANK	E	KISAS, SELANGOR
Shaiful Bahri Bin Mustafa, Nur Hazierah Bt Mohd EShah, Nurul Farhanah Bt Nazri Shahrudin	KAPOK AS POTENTIAL NATURAL FIBRE FOR PAPERMAKING	A	KISAS, SELANGOR
Nik Syamim Firdaus Bin Nik Ahmad Zuky, Muhammad Faris Bin Mhd Ali, Nor Faelyiana Binti Mohd Fakarudin, Nur Fatin Atirah Binti Nasuha, W. Ahmad Azran Binti W. Salleh	MANUKA HONEY vs TUALANG HONEY IN TREATMENT OF CORNEAL ULCER	C	KMKN, KEDAH
Siti Nur Atikah Binti Azhar, Aqilah Hanim Binti Roslee, Nurul Aishah Binti Abdul Rahim, Farah Hanani Binti Aripin, Wan Ahmad Azran Bin Wan Salleh	Antimicrobes Diaper Rash Balm	C	KMKN, KEDAH
Farah Deena Binti Roslan @ Rozlan, Shaza Nazirul Bin Zainal, Amirul Afifi Bin Pauzi, Ilyas Bin Zaidi, W. Ahmad Azran Bin W. Salleh	Aedes Paradox	C	KMKN, KEDAH
Muhammad Fauzan Farhan Bin Jalil, Mohd Ashraf Bin Mad Nor, Mohd Aliman Bin Norazman, Erierwin Ridsuan Bin Mhd Aras, Muhammad Asraf Bin Abdul Razak, Mohd Nizam Bin Jamaludin	BLIND MAN STICK	F	KMKN, KEDAH
Mohd Ajiq Muzhafar Bin Kemis @Yahyah, Muhammad Uthman Affan Bin Mohd Nazri, Aliman Hakim Bin Supee, Nabilah Hashim	ULTIMATE JUMPER	E	KMKN, KEDAH
Nabilah Hashim, Syed Syamil Bin Syed Osman Abadi, Mohamad Afif Farhan Bin Abdul Raman	EMERGENCY VEHICLE ALERT SYSTEM	E	KMKN, KEDAH
Faris Akmaluddin Bin Zainal, Nurul Atieqah Binti Roslan, Maria Ilyana Binti Muhammed	COCONUT SHELL ACTIVATED CARBON AS AMMONIA REMOVAL IN WATER	A	KMKULIM KEDAH
Norrisalha Binti Mohamad Tahir, Nur Amirul Bin Abdul Wahab, Irfan Nadim Bin Anuar	THE MIRACLE OF ALOCASIA DENUDATA	C	KMKULIM, KEDAH

Mohd Rosnizam Bin Mohd Yusoff, Muhammad Haziq Bin Hishamuddin, Muhammad Khair Bin Che Sahari, Nur Hashimah Binti Rozali, Noor Syafiqah Diana Binti Mohamad Ghazali	CATTAPA - ORGANIC TREATMENT FOR AGRICULTURAL PURPOSES	A	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
Mohd Rosnizam Bin Mohd Yusoff, Yasril Bin Yahya, Raja Nor Ezzatie Binti Raja Ishak, Farhah Ainaa Binti Mohd Adam, Nur Farahim Afiqah Binti Zakaria	AQUACLARA - RAWATAN AIR SISA INDUSTRI PEMBERSIHAN UNTUK KEGUNAAN PERTANIAN	A	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
Salehuddin Bin Sabran, Muhamad Zaki Bin Manap, Hj Jaafar Bin Shaari, Mohammad Hafiz Bin Zaaim, Mohd Nor Arif Bin Dzulhanan, Muhamad Nasrul Hadi Naim Bin Zakaria, Airul Akmal Bin Abd Hamid, Mohamad Nazlan Shafiq Bin Saari	KONFIBER - PELLET MAKANAN TERNAKAN RUMINAN DARI GABUNGAN KONSENTRAT DAN FIBER	A	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
Salehuddin Bin Sabran, Mohamad Iqbal Bin Abdul Latib, Noormazlinda Binti Omar, Narizzati Binti Khalid, Muhammad Nabil Bin Mohd Radzi	TYREFID - KANDANG TERNAKAN RUMINAN YANG AKAN MENJAMIN KESIHATAN DAN KESELAMATAN SERTA DAPAT MEMELIHARA ALAM SEKITAR	A	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
Faraliza Bt Hassan Shokri, Tn Hj Mohammad Jaafar Bin Sahari, Nurul Natasha Bt Hamid, Mimi Syazwani Bt Suhairi, Nur Sabrina Bt Zulkarnain	MENTHA DETOXER	C	KOLEJ VOKASIONAL (PERTANIAN) TELUK INTAN, PERAK
Kementerian Kesihatan Malaysia Dan Jabatan Kebajikan Orang-Orang Tua	CARE J PROJECT (MULTIPURPOSE BED)	E	MCKK, PERAK
Muhammad Asyraf B Suhaimi, Raja Shaiful Nazrin B Raja Hisham	ARECA BETEL HANDIPLAST	A	MJSC KUANTAN, PAHANG
Maysha Azreena Mohd Azmi, Nur Hanis Athirah Hamdan, Rohani Binti Hassan	ECO-FRIENDLY OIL ABSORBENT	A	MJSC KUANTAN, PAHANG
Nur Izzah Bt Ishak, Nurul Nabilah Bt Hambali, Syahril Syahmi Afiz B Shamsul Bahrin, Ahmad Bahri Bin Che Mustafa	PULGO BLENDER	F	MJSC KUANTAN, PAHANG
Nurul Anis Athilah Bt Ahmad Hilmi, Ainatasha Ezzati Binti Rosli	BANANA STEM AS CEILING	A	MJSC KUANTAN, PAHANG
Aida Nadhirah Binti Mohd Khairuzzaman, Athirah Farhana Binti Azemi	THE MECHANICAL PROPERTIES OF HYBRID COMPOSITE AND TREATED REINFORCEMENT FIBER IN COMPOSITE	D	MRSM BALIK PULAU PULAU PINANG
Nur Ain Nabila Bt Mohd Ghazali, Nur Sabrina Bt Mohd Azhar	GO NATURE WATER FILTRATION SYSTEM	A	MRSM GEMENCHEH NEGERI SEMBILAN
Siti Sarah Yasmin Bt Mohd Zaidi, Nurul Izzah Bt Azmi, Nur Adhiah Bt Zulkifli	NEW DEHYDRATED FOOD WASTE FOR FREE RANGE VILLAGE CHICKEN	C	MRSM GEMENCHEH NEGERI SEMBILAN
Mohamad Syahzarulnizam Ma'zin, Nur Adriana Azhar	HANDLESS DRIVING CAR	B	MRSM SERTING, NEGE SEMBILAN
Eyzan Haikal Bin Ez, Zualiana Bt Johari	MALYMIA FERTILIZER	A	MRSM SERTING, NEGE SEMBILAN
MrsM Transkrian, Zuraini Bt Abdullah, Muhammad Izzul Irfan Bin Zulkifli, Noor Hazlina Binti Ahmad, Muhammad Farhan Bin Rozli, Nik Amir Zakwan Bin Nik Zahid	A-Pro Field System Machine	E	MRSM TRANSKRIAN PULAU PINANG
Zuraini Bt Abdullah, Raja Amirul Muhaimin Bin Raja Abd Aziz, Lee Wai Hon, Ahmad Fikri Bin Aidil Adzha, Mohd Nabil Farhan Bin Abdul Razak	The Brain Glider	E	MRSM TRANSKRIAN PULAU PINANG

Raja Perempuan Taayah School, Perak	TOBUTROY	A	RAJA PEREMPUAN TAAYAH SCHOOL, PERAK
Sekolah Berasrama Penuh Integrasi Gombak	PHOTOVAWT	A	SBPI GOMBAK, KL
Adil Dataesatu, Abdulhakeem Jehma, Ahmad Haziq Bin Ahmad Afpandi, Muhammad Zaidi Bin Kasim, Wan Muhammad Hafizam Bin Fauzi	DEVELOPMENT AND CHARACTERIZATION OF FORMULATION SOAP FROM USED COOKING OIL	C	SBPI RAWANG, SELANGOR
Nik Aisya Annisa Bt Nik Hisham, Wan Nurul Hidayah Bt Wan Hamdan, Aichah Ma-Aekian, Resteyea Lamputeh, Ainul Mardiyah Bt Roslan Hakim	AROMATHERAPY / HERBAL FAN	C	SBPI RAWANG, SELANGOR
Muhammadsobree I-Bu, Muhammad Najmi Bin Risdan, Muhammad Amirul Azizi Bin Ihsak, Nor'azam Khalis Bin Mazrulhisham, Azlina Binti Abdullah, Zairene Zafina Binti Yunus	GREEN INNOVATION IN WOODEN FURNITURE FROM THE COMPOSITION OF DRIED LEAVES AND USED POLYESTERENES	D	SBPI RAWANG, SELANGOR
Muhammad Mu'az Bin Shaharani, Azman Fariez Bin Mazlan, Muhammad Afif Azamuddin Bin Azman, Muhammad Adlan Bin Jamali, Anas Naufal Bin Anaruddin	NEW INNOVATION IN THERMOPLASTICS : COCKLE SHELLS WASTE AS NANOCOMPOSITE	D	SBPI RAWANG, SELANGOR
Ahmad Zuhairi Bin Tusiman, Muhammad Mu'az Bin Shaharani, Muhammad Badzlan Zharfan Bin Badzrol Hisham, Muhammad Arief Rasydan Bin Ismail, Muhammad Afham Bin Roslan	FROM WASTE TO WEALTH : PALM OIL FUEL ASH (POFA) AS A SUPPLEMENTARY CEMENTITIOUS MATERIAL	D	SBPI RAWANG, SELANGOR
Muhamad Hazim Bin Zulfitra, Muhammaad Alif Bin Azmi, Mohamad Haziq Bin Mohamad Faizal, Mior Ahmad Fikri Bin Mior Ifindi, Ahmad Firdaus Bin Baharudin (E-Maze Group)	FROM TRASH TO TREASURE : EFFECTIVE GLYCERIN FROM USED COOKING OIL	G	SBPI RAWANG, SELANGOR
Muhammad Afiq Bin Abdullah, Mohammad Shafiq Bin Mohammad Sopian, Muhammad Aiman Hakim Bin Samsuddin, Muhammad Aiman Bin Masod, Muhammad Hafiz Bin Roslee	NEW INNOVATION IN PRODUCTION OF FERTILIZER : 3 IN 1 FERTILIZER	A	SBPI RAWANG, SELANGOR
Ayna Latisya Binti Azfar Rizal, Nur Afiqah Binti Mat Abdul Shukur, Nur Atikah Binti Abd Rashid, Habsah Binti Ahmad, Nur Latika Binti Sidek	The ability of saponin in the husk of Durio zibethinus as the promoter for the plant growth	A	SEKOLAH SERI PUTERI, SELANGOR
Mardiah Binti Mohammad Azmi, Nur Idayu Binti Mohd Yusof, Nur Shazwani Binti Ahmad Shuhairi, Habsah Binti Ahmad, Nur Latika Binti Sidek	Mimusops elengi L. EXTRACT KEEPS THE DENTIST AWAY	A	SEKOLAH SERI PUTERI, SELANGOR
Muhammad Amir Hakim Bin Hamdan, Mohammad Al-Amin Bin Mohd Abd Rashid, Muhammad Hishamuddin Bin Jamaludin	SMART SEEDING INJECTOR		SEKOLAH TINGGI KLUANG, JOHOR
Jonathan Tan Huan Jing, Wong Jun Xian	FLEXI-CROPS GUARDIAN & SUPPORTERS		SEKOLAH TINGGI KLUANG, JOHOR
Muhammad Helmi Bin Abdul Aziz, Muhammad Hamiduddin Bin Hamdan	3T PANEL		SEKOLAH TINGGI KLUANG, JOHOR
Alya Nazirah Binti Mohd Loodfi, Nur Amalia Binti Khairulanwar	FYBRID	C	SEKOLAH TUN FATIMAH, JOHOR
Muhammad Qhalif Azariq Bin Sahzan, Rifqie Aiman Bin Mohd Sallehuddin, Muhammad Faiq Hafiy Bin Muhammad Fauzan, Miqhael Aiman Bin Mohd Sallehuddin	MASTER CUT	F	SK SENA, PERLIS
Muhammad Wafiq Bin Mohd Irfan Hatim, Aiman Safwan Bin Mohd Mustafa Al Bakri, Najihah Humairah Binti Mohd Najmuddin, Nur Hana Alisha Binti Khairul Rafezi	SMART BODY WASH	C	SK SENA, PERLIS

Nor Farah Atiqah Binti Irwan, Nurul Izzati Binti Zulkifli	MORTAR AND PESTLE COVER	F	SK SULTAN IDRIS 2, PERAK
Ainul Syazwina Binti Shamsuddin, Nur Hanis Nasuha Binti Mohd Saharani	CARO Trap	F	SK SULTAN IDRIS 2, PERAK
Shahrilliza Binti Md Yunus, Syed Amir Faris Bin Syed Shahrhan	MAGIC FINGERS	G	SK TAMBUN, PERAK
Raja Abd Latif Bin Raja Abd Jalil, Muhammad Adam Muqri Bin Mohd Nazri	NATURAL FILTER	A	SK TAMBUN, PERAK
Sekolah Menengah Intiaz (Yt) Besut	Valve Release Pump	F	SM IMTIAZ (YT) BESUT
Mohd Nazir Bin Deraman, Noor Syamimi Bt Dolah, Nik Nur Amirah Bt Zulkifly, Nur Munira Fakhira Bt Abdullah, Nur Batrisyia Damia Bt Mustafa	MULTI FUNCTION ROSTRUM	F	SM IMTIAZ (YT) KUALA BERANG, TERENGGANU
Azrol Azam Bin Zunaini, Wan Muhammad Jannahtul Firdaus B Wan Ahmad, Huda Safiah Binti Hassan, Saripah Binti Embong	DR. DUSTER	C	SM IMTIAZ YAYASAN TERENGGANU, KUALA TERENGGANU
Muhammad Faris Bin Muhammad Rafee, Fatimah Az Zahra Binti Zulkifli, Afifah Binti Mohd Zabidi, Saripah Binti Embong	THE MIRACLE OF LIROX	C	SM IMTIAZ YAYASAN TERENGGANU, KUALA TERENGGANU
Achilles Bernard Logijin, Danya Jill Lingkapo, Christian Isaac, Odetta Collette Wong, Mariatul Hanis Abdullah, Cyprian Rian Jokinol, Marie Yong Pik Hua	Doca DETACHABLE DRINKS DISPENSER	F	SM ST MICHAEL, PENAMPANG SABAH
Jonathan Wong, Nichelle Faye Cheong Nyuk Phin, Petrine Donsia, Gareth Reuben Freedy, Mariatul Hanis Abdullah, Cyprian Rian Jokinol, Marie Yong Pik Hua	VETTA POTES - SELF WATERING POT	A	SM ST MICHAEL, PENAMPANG SABAH
Sekolah Menengah Teknik Alor Setar, Kedah	SMART BBQ GRILL	B	SM TEKNIK ALOR SETAR, KEDAH
Najahatus Solehah Binti Rapihi, Nurul Iman Sofea Binti Suhaimi, Farah Nur Zulaikha Binti Zainul Rijal	Pandanus Cockroach Repellent	C	SMAP LABU, NEGERI SEMBILAN
Suffa Melati Binti Zaidell, Nur Shahidah Binti Aziz, Munirah Binti Azaman	Sidr Antiseptic	C	SMAP LABU, NEGERI SEMBILAN
Wan Nur Auni Athirah Bt Wan Hamdan, Syahirah Binti Yusof, Khairunnisa Binti Darus	SMART CLOTH DRYER	F	SMK ABDUL RAHMAN TALIB, PAHANG
Nur Dinah Izzaty Bt Mohd Zaid, Muhammad Alif Imran Bin Ab. Hamid, Muhammad Hazim Bin Zulkifly, Norfaridatul Akhmar Binti Hasim	COMPOST-HYDROGEL FERTILIZER	A	SMK ABDUL RAHMAN TALIB, PAHANG
Nur Ayuni Binti Zamri, Ainul Nabilah Binti Mohd Asri, Nurdyana Syahira Binti Ahmad Shafir	GENIUS BOOK STOPPER	D	SMK AGAMA ARAU, PERLIS
Amirul Asyraf Bin Noor Nasruddin, Nur Azmi Bin Norkhiriri, Muhd Aizuddin Bin Zamri	MAGIC PAINT SPRAYER	D	SMK AGAMA ARAU, PERLIS
Ku Nur Afifatin Binti Ku Harizan, Amanina Dlyana Binti Ahmad, Nurul Afiqah Binti Md Shukri	AMAZING DRY BOX	D	SMK AGAMA ARAU, PERLIS
Muhammad Ikhtimal Bin Abu Bakar, Syahril Raziq Bin Syaiful Izzihar, Muhammad Afiq Bin Nor Hisham	LITTERBAG HOLDER	B	SMK AGAMA KEDAH
Sekolah Menengah Kebangsaan Ayer Hitam, Izzat Fahmi Bin Khadir, Muhammad Shakir Bin Shuib, Muhd. Syamil Bin Saiedin, Nurul Liyana Binti Mohd Zaiyadi, Nur Fatimah Binti Abdullah	NIGHT GRASS CUTTER	A	SMK AYER HITAM, KEDAH

	EMISSION IMPOSSIBLE - THE SMART HYDROPONIC SYSTEM	A	SMK DATO' SHEIKH AHMAD, PERLIS
Syafiq Irfan Bin Syahrul Effendy , Jayabalan A/L Anathe Segar , Kaw Zi Wei	HYDRO EARTH'	A	SMK IBRAHIM, KEDAH
Aniston Williams A/L Simon , Ng Han Xiang , Marian Yeow Chee Yen , Sajidah Khadijah Bt Meor Mohammad Fared , Praboganes A/L Suria Kumaran , Adil Taufiq Bin No. Azmi , Leong Wai Hyn , Rubbendra A/L Paramasiva , Mohammad Hariz Bin Hafiz	HYDROPHOBIC CELLULOSE FROM COCONUT HUSK FOR OIL SPILL CLEANING	A	SMK KOTA KEMUNING, SLQR
Ameerul Zafran Saiful Amir , Nur Hannani Mat Noh	A NOVEL SYSTEM ASSISTANCE FOR SECONDARY SCHOOL PSYCHOMETRIC TEST VIA KEYSTROKE DYNAMICS BIOMETRIC SYSTEM	E	SMK PAYA KEMUNTING, KEDAH
Ade Jasmine Binti Ponniran , Nuraqila Farhana Binti Asri , Sarimah Binti Mat Hashim , Mohd Hazizul Bin Abd Hamid	BABY BOTTLE SEPARATOR (ByBSTOR)	F	SMK PUTERI WANGSA, JOHOR
Wan Muhammad Aiman Hazimin Bin Wan Mohd Zuferi , Wan Muhammad Aidid Haiqal Bin Wan Mohd Zuferi , Ahmad Fahmi Bin Sajah , Rosy Mastura Binti Yahya , Naimah Binti Ismail	EASY DISPOSER V2	A	SMK SULTAN ISMAIL 2, KEMAMAN TERENGGANU
Hariharan Menon , Soo Elson , Che Wan Nurshafiqah Bt Che Wan Zahari , Rosy Mastura Binti Yahya , Naimah Binti Ismail	PRESSURE MUFF	F	SMK SULTAN ISMAIL 2, KEMAMAN TERENGGANU
Nur Adlyna Bt Hayazi , Nur Izzati Bt Ngasri , Nur Mashitah Bt Asri , Siti Nor Jamaliah Md, Radzi	Leucaena leucocephala : NATURAL DIETARY SUPPLEMENTS	C	SMK SYED SAFFI, PERLIS
Muhammad Nabil Bin Abdullah	WELCOME TO THE GLAMOURZONIA HOTEL: A COMPUTER GAME TO ENHANCE UNDERSTANDING IN LEARNING PREPOSITION OF DIRECTION	G	SMK TAMAN DAYA 2, JOHOR
Siti Aisyah Binti Mohd Azli , Nur Natrahaniyes Binti Suhaimi , Nor Atikah Hanani Binti Ishak , Nurul Shazlin Binti Mohd Shamsul , Nur Zahirah Binti Abdul Khalid	SENSACTION!: A UNIQUE EDUCATIONAL GAME FOR THE BLINDS FOR ENGLISH LANGUAGE ACQUISITION IN 21ST CENTURY CLASSROOM	G	SMK TAMAN DAYA 2, JOHOR
Sekolah Menengah Kebangsaan Agama (P) Alawiyah, Kangar	PHONE CHARGING CASE	E	SMKA (P) ALAWIYAH, PERLIS
Nor Amanina Binti Zamri , Norfatin 'Alyaa Binti Khairuddin	THE ELIXIR	C	SMKA AL-IRSHAD, PULAU PINANG
Akmal Hazim Bin Ahmad Razid , Arif Danial Bin Mohd Lodfi , Lisneza Binti Roseli	Smart Rollator	C	SMS HULU SELANGOR
Mohd Shakir Zubayrie Bin Rozali , Muhammad Nazmi Alif Bin Mohd Saad , Lisneza Binti Roseli	Gummy SEMASHUR	A	SMS HULU SELANGOR
Muhammad Nurzahir Bin Saipolbahri , Nor Mugri Musyrif Bin Norrashid , Muhammad Nur Shahfiz Bin Normadani , Mohamad Fazwan Bin Zamrey , Muhammad Haziq Bin Baiman , Syahirunnisa Farahdini Binti Sabarudin	MONOPOD-DUSTER	G	SMS JOHOR, JOHOR
Mohamad Amirul Hafiz Bin Azman , Muhammad Haziq Bin Hisham , Shahrin Amin Bin Sharifudin , Afiqah Allah Binti Jamal , Nur Farahin Binti Mohd Ghadafy , Nur Izzatul Najihah Binti Abd. Rahim , Nurul Fariza Binti Aris , Nur Fadhlin Fatini Binti Rosli , Siti Norazwa Binti Idris	EDITED STEAM IRON	E	SMS JOHOR, JOHOR

Mohammad Fazrin Bin Misrom , Mohd Norhafizam Bin Nordin , Nurina Fatini Binti Mohd Faisul , Siti Ayu Raudhiah Binti Yunan , Nur Ezzatul Afrina Binti Abd Rahman , Nur Amalin Naquiah Binti Mohd Ghazali , Nur Farahizzati Binti Nazi	JACKBARROW	D	SMS JOHOR, JOHOR
Muhammad Akmal Bin Mohd Sukri , Shafiq Izzan Hakimi Bin Rosli , Nur Alina Farraain Bt Zahanizam , Siti Syarafana Bt Suhaimi , Nur Izzati Syazwani Bt Zaini , Nur Asiah Bt Hamzah , Aida Kaisah Bt Baharuddin , Nasha Allyssa Bt Ismail , Nurul Syafinaz Bt Md Senin , Nurul Farrahwahidah Bt Mohd Joharuddin , Nurul Ain Salsabila Bt Zulkefli , Adibah Bt Zurkafl	CHAIR-POOL	D	SMS JOHOR, JOHOR
Muhammad Iqbal Bin Zamri , Muhammad Najmi Bin Rosli , Nur Atikah Binti Bani Amin , Mirrah Mahirah Binti Rahim , Nurain Syahira Binti Abdul Jalil , Nurul Fatm Syazwany Binti Baharuddin , Nur Afiqah Binti Nazarudin , Siti Fadhilina Binti Kifli , Normazatul Ain Binti Afzainizam , Noor Amirah Binti Mohd Yusuf , Afifah Nur Dina Binti Mohd Rahman , Norsyafiqah Shahirah Binti Johari , Nurfarrah Atiqah Binti Roslan , Syahirah Nabilah Binti Mohd Suhot , Nur Ainaa Amirah Binti Shahrulnizam	THE LUGGAGE BABY CARRIER	F	SMS JOHOR, JOHOR
Muhamad Adlan Farhan Bin Rosnan , Muhamad Imran Bin Zaidon , Shahrin Hakimi Bin Ahmad , Mohammad Azfar Aminuddin Bin Mazhan , Muhammad Amir Saddam Bin Azhar , Omar Aziz Bin Azman , Muhamad Amirul Hakli Bin Abdul Halim , Muhamad Syazni Bin Azhar , Ahmad Azam Bin Shamsuddin , Izzul Arifin Bin Ishak , Putera Arif Haikal Bin Rusli , Sharoz Schezwen Bin Nur Muhd Nizam	SANDAL-THIEVES BUSTER	F	SMS JOHOR, JOHOR
Muhamad Iqbal Bin Shapie , Mohd Khairul Nizam Bin Hussain , Nur Maysarah Binti Ramli , Nurul Natasya Binti Faidzal , Ainnur Sabrina Binti Abdul Malek , Nur Adibah Izzati Binti Azhar , Nur Aisyah Binti Ramli , Farah Munyati Binti Yuslan , Athifah Najihah Binti Norizan , Maryam Afifah Binti Zaffan , Alia Zaidah Binti Zainurrazim , Nur Allah Nisrina Binti Fadzil Wan Mohamad Izzuddin Bin Wan Mamat , Raja Muhamad Amir Hamzah Bin Raja Mohd Azlan , Muhammad Luqman Hakim Bin Zakariya , Adib Bahaqi Bin Mohamed Fauzi , Muhammad Najmi 'Adnin Bin Rohizal , Muhamad Irzan Bin Mohd Hashim , Fathia Aisyah Binti Mohamad Haizal , Nurul Ezzah Binti Noh , Nurulia Syafiqah Binti Nazri , Hasnaini Binti Hasnan , Nur Aisyah Binti Syukrie , Tasnim Binti Ahmad Fatimi	SUPERIOR DRAIN CLEANER	F	SMS JOHOR, JOHOR
Mohamad Arif Aiman Bin Mohd Rosman , Muhammad Faris Ridwan Bin Andy Gunawan , Farah Aimi Dalila Binti Musa , Siti Nur Shuhadah Binti Jafri , Izzah Irdina Binti Husni , Siti Syuhaidah Syahirah Binti Raziadi , Sofea Shahira Binti Nor Rahman , Hanis Mirza Binti Mohd Suhaimi , Nurul Syazaaminina Binti Mohd Nizam , Nisha Umairah Binti Razali , Nurun Nabilah Binti Azmi , Elya Batrisyha Binti Ramli	HELPER WARDROBE	F	SMS JOHOR, JOHOR
	SUPER BASKET	G	SMS JOHOR, JOHOR

Amirullah Bin Mohamad Fazi, Muhammad Anfan Bin Ashraff, Farzana Binti Rosaldi, Azyan Bt Azhar, Shara Eileen Binti Mohamad Shahil, Intan Farhana Bt Zainal Abidin, Ikmal Fariq Bin Sa'udi, Dinie Shahirah Binti Azman, Noor Azura Binti Ajiah, Nur Hazieqah Binti Azman, Nurazimah Binti Azmi	SMART MAILBOX	E	SMS JOHOR, JOHOR
Muhammad Iqbal Hakem Bin Ashari, Muhammad Amerul Farhan Bin Nuadnan, Nur Azreen Binti Aziman, Nur Fatimah Binti Abd Aziz, Nur Izzati Binti Hassan, Safra Munira Binti Abdul Wahid, Aida Nur Atikah Binti Leman, Nurul Aina Binti Jasni, Siti Musferah Binti Ngatiran, Zarina Shahinaz Binti Zolkpeli	THE CHARTERBIN	G	SMS JOHOR, JOHOR
Muhammad Hakimi Bin Ramli, Syaftul Bin Ramadhan, Mohamad Sufian B Sarubi, Muhammad Khalbie Bin Ambok Sangkrek, Mohamad Firas Bin Nordin, Muhamad Afiq Deniel Bin Zainul Khan, Muhammad Hahmi Bin Samiron, Amirul Aiman B Khoir, Muhammad Syahir Bin Abd Sallim, Muhammad Yazed Bin Abdul Rahman, Muhammad Fakhruul Hadi Bin Noraini	D.O.C.H.(DOUBLE OSCILATION HEAT CONDENSER)	A	SMS JOHOR, JOHOR
Ridzuan Bin Hashim, Norsyahida Bt. Mohd. Hassan, Mohd Abdul Hakim Bin Luthfi, Khairul Hakim Bin Norshid	"SEATBELT FOR LIFE" (HIDDEN INTERLOCK SYSTEM)	B	SMS KUBANG PASU, KEDAH
Muhammad Ikmal Aiman Bin Bujang, Aaron Aldwyn Bin James Pekan	ECO-SMART FAN SYSTEM	E	SMS KUCHING, SARAWAK
Muhammad Irsyad Ibrahim, Nor Fadiah Shamrih, Bonie Lam Poh Choo	MAGNETFICIENT	C	SMS LABUAN, SABAH
Mohd Ozaniezie Onasis, Mohd Amin Kula, Mohd Khairul Isa Mohd Samsudin	TRIBRITE	B	SMS LABUAN, SABAH
Mcowen Mackriss, Muhammad Zamir Faizi Mohd Zamri	SUPERB COURT	E	SMS LABUAN, SABAH
Muhammad Amirul Bin Mazlan, Nur Allah Ezzati Binti Mohd Nasir	INFINITE POWER SUPPLY	E	SMS MUZAFFAR SYAH, MELAKA
Norazlina Binti Senin, Muhammad Luqman Hakim Bin Shahrudin, Nur Syazwani Binti Janurin, Muhammad Qusyairi Darasalam Bin Rosman	SMART ONION PEELER	B	SMS MUZAFFAR SYAH, MELAKA
Adyani Binti Ahmad, Edif Junin, Eliser Anak Angkin, Ikmal Idham Bin Kamal, Iskandar Bin Yaakob	Economical Waste: Onion Peels As Insulating Particleboard	D	SMS MUZAFFAR SYAH, MELAKA
Nurul Ain Tay Bt Abdullah, Nurul Aida Binti Mohd Nor Zaki, Muhammad Aizad Nashriq Bin Noor Azman	MULTIPURPOSE IRON BOARD – M.I.B	B	SMS MUZAFFAR SYAH, MELAKA
Hadri Safwan B Sutaji, Ahmad Safwan Irfan B Ahmad Shafiq, Muhammad Hazim B Abu Bakar, Mohamad Izad B Hakimi	FRIENDLY & PORTABLE AIR-CONDITIONER	E	SMS MUZAFFAR SYAH, MELAKA
Lak Ong'a A/P Udom, Darid Char A/L Thawip Sripraphan	Formation of Nanoporous Iron Oxide Lotus Effect : Lefonio	A	SMS POKOK SENA, KEDAH
Nor Atiqah Binti Mohd Fadzil, Muhammad Hafiz Bin Khairul Nassuha	AN IMPROVISED EARTH ELECTRODE SYSTEM WITH BENTONITE-KENAF POWDER MIX	E	SMS RI TUN AZLAN SHAH, PERAK

Muhammad Zabir Bin Abdul Wahab, Tham Chi Cheng, Akmal Faiz Bin Abd Halim	KITCHEN WASTE WATER FILTER	A	SMS TAPAH, PERAK
Ahmad Izhar Bin Mohd Radzi, Nadia Nadhira Binti Abdul Wahab, Shazrina Binti Mat Radzi	MAGNETIC TRIOEUPHUISTIC	D	SMS TAPAH, PERAK
Nur Damia Binti Mustafa, Irisha-Fazlin Binti Mohtar, Zafrah Binti Abdul Gani	TD4 Bar	C	SMS TAPAH, PERAK
Muhammad Mus'ab Nawfal Bin Mohd Amin, Erna Farina Binti Ramlee, Nur Syafira Binti Abdul Rahman, Sesta's	MULTIPURPOSE CHAIR	D	SMS TAPAH, PERAK
Nur Arissa Syazwani Binti Md Nazrey, Nurul Haslinda Binti Hamdan, Nur Sabrina Binti Helmi	THE OIAC FILTER	A	SMS TAPAH, PERAK
Amirul Haiqal B Kheirul Anwar, Muhammad Mujib B Khairul Amri	CURRY LEAVES (MURRAYA KOENIGII) AS ECO-FRIENDLY PESTICIDE	C	SMS TENKU ABDULLAH, PAHANG
Muhammad Imran Bin Sarifulnizam, Muhammad Syam Malik Bin Muhammad Naim, Noor Harith Alauddin Bin Noor Azhan Rizaluddin	BLISS Assist	E	SMS TUANKU MUNAWIR, NEGERI SEMBILAN
Muhammad Fattah Bin Sallehuddin, Nazmi Bin Noor Kamarul Anuar, Muhammad Zaid Imran Bin Mohd Johari	i-Flag Raiser	E	SMS TUANKU MUNAWIR, NEGERI SEMBILAN
Muhammad Zain Al'amiruddin Bin Md Zin, Muhammad Aisar Bin Aznal, Wan Ahmad Farihin Bin Adelan	LOC8	E	SMS TUANKU MUNAWIR, NEGERI SEMBILAN
Muhammad Haziq Bin Nazlan, Muhammad Hazim Bin Nazlan, Noridah Binti Yangman, Ramizah Binti Rusli	DIY Flood Mud Green Brick	A	SMS TUANKU SYED PUTRA, PERLIS
Nurul Nazihah Bt Roslan, Ahmad Ali B Nazdri, Nurnisa Bt Mohd Naziz	SMOKE MACHINE	F	SRK PUTERA, PERLIS

CATEGORY INTERNAL : UNIVERSITI MALAYSIA PERLIS (UniMAP)

INVENTOR NAMES	INVENTION/PRODUCT	CLASS	SCHOOL
Doi Jun Hao, David Mok Mun Kit, Wan Shahrizal Wan Nadhari	Hydrogen Fuel Cell Powered Electric Vehicle	A	Diploma Programme Coordination Unit
Muhammad Helmi Sakawi, Mohd Hanif Zulkifli, Mohd Nasir Mat Saad	Non-Detachable Fruits Wrapping Device	A	Diploma Programme Coordination Unit
Ezzatul Deanna Erni Binti Mohamad Azmi, Masharah Binti Mohd Latif, Noor Lela Binti Jamil, Nurul Najlaa Binti Zakaria, Farah Atiqah Binti Baba	Ripe Chili Detection Based on Colour and Shape implemented on SBC	A	Diploma Programme Coordination Unit
Nurin Zafarina Ahamad, Ummu Syakirah Che Nat, Muhamad Farizuan Rosli	A New Innovation of Fire Alarm System	B	Diploma Programme Coordination Unit
Tan Khiey Loon, Tan Swee Tiang, Ahmad Syahir Ahmad Bakhit	Cell Phone Controlled Robotic Vehicle	B	Diploma Programme Coordination Unit
Aina Afiqah Ruzide, Murizam Darus	Continuous Paint Roller	B	Diploma Programme Coordination Unit
P'ng Boon Ho, Faridah Nurhayati Mohd Noor, Nurul Fatimah Othaman, Mohd Sallehuddin Saad	Digital Home Control System using 1Sheeld	B	Diploma Programme Coordination Unit
Russell Fay Halberth, Siti Zulaikha Zolkifli, Mohd Sallehuddin Saad	Gesture Hand Glove	B	Diploma Programme Coordination Unit
Nur Sulwani Sulzari, Erdy Sulino Mohd Muslim Tan, Jefri Effendi Mohd Salih, Marni Azira Markom, Shahrilhafiz Zainal, Shahrul Annuar Heedan, Mohd Nazreen Md Isa	Greenhouse for Transgenic Plant	B	Diploma Programme Coordination Unit

Lim Ming Fang, Ooi Chiu Yee, Kwan Chee Lum, Ahmad Syahir Ahmad Bakhtit	Smart Home	B	Diploma Programme Coordination Unit
Khoo Yi Xuan, Alex Lim Zhi Sheng, Mohd Firdaus Omar, Hazizan Md Akil, Nik Noriman Zulkepli	ECO-SUPPORT : Eco Friendly Lightweight Soil Support Structure	D	Diploma Programme Coordination Unit
Ummu Syakirah Che Nat, Nurin Zhafarina, Mohd Firdaus Omar, Hazizan Md Akil, Nik Noriman Zulkepli	HY-KeFREC (High Performance of Hybrid Natural Fibre Reinforced Composites)	D	Diploma Programme Coordination Unit
Annurfatinah Mohd Zain, Sow Cyn Khwang, Zulhasif Zulkipli, Mohd Effendi Muhammad Suandi	ARL Door System	E	Diploma Programme Coordination Unit
Alex Lim Zhi Sheng, Khoo Yi Xuan, Mohd Sazli Saad	Flood Alerting System (FAS)	E	Diploma Programme Coordination Unit
Siti Nurul Fatimah Munirah Abdullah, Norrainia Adnin Mohamad, Nur Shazwina Shubli, Mohd Khairul Fadzly Abu Bakar	GSM Temperature Alert System to Detect Human Body Temperature	E	Diploma Programme Coordination Unit
Siti Nurul Fatimah Munirah Abdullah, Nor Rosemah Jefri, Nor Amalina Azman, Mohd Khairul Fadzly Abu Bakar	GSM Temperature Alert System to Detect Temperature Inside the Car	E	Diploma Programme Coordination Unit
Aysyah Pebriani Disman, Ruthreswari Saravanan, Amarul Talip	I-track using radio frequency	E	Diploma Programme Coordination Unit
Ahmad Zambree Abdul Ghani, Mohamad Fadhil Mohamad Din, Wan Shahrizal Wan Nadhari	Mobile Robot Temperature Sensing System via Smartphone	E	Diploma Programme Coordination Unit
Aysyah Pebriani Disman, Ruthreswari Saravanan, Amarul Talip	Re-iGate	E	Diploma Programme Coordination Unit
Ahmad Mustaqim Mohd Noor, Zulhasif Zulkipli, Ahmad Hafizuddin Zakaria, Sow Cyn Khwang, Mohd Nasir Mat Saad	V2 Shrimp Paste Dryer	F	Diploma Programme Coordination Unit
Sarah Ingrid Xervaser, Nur Huhwani Ibrahim, Zainab Hamzah, Othman Hashim, Kamarudin Hussin	A novel enzymatic treatment to facilitate removal of impurities from raw EBN	A	Faculty of Engineering Technology (FETech)
Lim Wei Lun, Ainatul Aifa Alias, Zainab Hamzah, Othman Hashim	Biochar: A green product from biomass waste to boost crop growth	A	Faculty of Engineering Technology (FETech)
Nur Atikah Binti Zulkainani, Mohd Fikri Bin Che Husin, Ahmad Fariz Bin Hasan, Mohd Norhafiz Bin Hashim	Greenhouse monitoring system	A	Faculty of Engineering Technology (FETech)
Tengku Muhammad Aliman Bin T. Mohd. Yusof, Mohd Fikri Bin Che Husin, Ahmad Fariz Bin Hasan, Mohd Norhafiz Bin Hashim, Muhammad Firdaus Bin Mohd Radzi	Low Energy Consuming Switched-Mode Regulator in Motorcycle Electrical Power Supply	A	Faculty of Engineering Technology (FETech)
Sarah Ingrid Xervaser, Nurfatirah Nordin, Nor Faezah Ahmad, Zainab Hamzah, Othman Hashim	Microwave and ultrasonic green extraction technique for bio-oil production	A	Faculty of Engineering Technology (FETech)
Mohd. Farhan Bin Abdul Halim, Ahmad Asyraf Bin Adnan, Amirul Akmal Bin Mohd. Izhan, Almi Mastura Bt. Othman, Erma Munira Bt. Mohidden, Fatin Hazirah Bt. Md. Ariffin, Nor Amirah Bt. Suraidy,	Mini Hydro Project From Reservoir	A	Faculty of Engineering Technology (FETech)
Anwar Bin Ibrahim, Ariff Bin Abd. Rahman, Husna Inani Binti Hishamuddin, Kristilla Natasha Krisphine, Marnis Norfika Binti Mohd Sabri	Smart table	A	Faculty of Engineering Technology (FETech)
Haliff Anas Bin Anuar, Nurul Nadia Binti Sallehuddin, Ahmad Marzuqi Farhan Bin Jaafar, Yazhar Bin Yatim	solar home ups control system	A	Faculty of Engineering Technology (FETech)
Atiq Satar Bin Abdul Satar, Mohamad Noor Amin Bin Zainudin, Mohamad Nazrin Bin Amin Salleh, Yazhar Bin Yatim	Solar portable warmer and cooler	A	Faculty of Engineering Technology (FETech)
Alif Aizat Azrale Bin Ahmad Jaelan, Muhammad Ezanudin Abdul Aziz, Abdul Hafizh Ismail	Smart Drone for emergency monitoring and disaster fast relief	B	Faculty of Engineering Technology (FETech)

Siti Nabilah Binti Abd Ghani, Nor-Fazira Binti Ramli, Nik Nur Irena Nik Mohamed Kamal, Nik Noriman Zulkepli, Sam Sung Ting, Mohd Firdaus Omar, Syahrul Affandi Saidi, Nik Zakaria Nik Yahya, Mohd Hazwan Subli	BIOPACK	C	Faculty of Engineering Technology (FETech)
Nursyuhada Binti Mohd Zainuri, Najihah Binti Azmi, Siti Nur Afiqah Binti Mohamed, Nik Noriman Zulkepli, Sam Sung Ting, Mohd Firdaus Omar, Syahrul Affandi Saidi, Nor Munirah Rohaizad, Nur Fatin Mohd Haniff, Haliza Jaya, Rosniza Hamzah	NATFAC-BREEZE	C	Faculty of Engineering Technology (FETech)
Che Mohd Ruzaidi Ghazali, Norizan Mohd Darawi, Mustafa Al Bakri Abdullah, Shayful Zamree Abd Rahim, Alida Abdullah, Mohamed Faisal Mohamed Nor, Suriyati Mohamed Ansari	SPIDER PLANT CO FILTER	C	Faculty of Engineering Technology (FETech)
Khairul Helmi Bin Mohd Afandi, Faizzul Izham Anuar, Nik Noriman Zulkepli, Sam Sung Ting, Mohd Firdaus Omar, Syahrul Affandi Saidi, Nik Zakaria Nik Yahya, Mohd Hazwan Subli	FETech Acoustic Panel	D	Faculty of Engineering Technology (FETech)
Nur Syakirah Binti Jamaludin, Nurul Amira Binti Basir, Nurul Afifah Binti Ahmad Lutfi, Nik Noriman Zulkepli, Sam Sung Ting, Mohd Firdaus Omar, Syahrul Affandi Saidi, Nik Zakaria Nik Yahya, Mohd Hazwan Subli	Recycled Anti-Fatigue Flooring	D	Faculty of Engineering Technology (FETech)
Mohammad Razif Bin Mustafa, Hairunisa Binti Md Hanapi, Muhammad Ezanudin Abdul Aziz, Abdul Hafizh Ismail	AATB: ANDROID ARDUINO TRAINER BOARD	E	Faculty of Engineering Technology (FETech)
Farah Hanan Binti Mohd Yosof, Mohammad Razif Bin Mustafa, Hairunisa Binti Md Hanapi, Muhammad Ezanudin Abdul Aziz, Abdul Hafizh Ismail	Android based monitoring and control system at Airport	E	Faculty of Engineering Technology (FETech)
Fitrah Adilah Binti Ab Rahman, Nur Suhana Binti Ismail, Wan Hafidzoh Binti Megat Adnan, Muhammad Ezanudin Abdul Aziz, Abdul Hafizh Ismail	Android based NFC and face recognition security system at Airport	E	Faculty of Engineering Technology (FETech)
Nur Suhana Binti Ismail, Wan Hafidzoh Binti Megat Adnan, Nur Syakirah Binti Shahabuddin, Siti Rosmawati Binti Mohd Rashid, Muhammad Ezanudin Abdul Aziz, Abdul Hafizh Ismail	ARTB: ANDROID RASPBERRY PI TRAINER BOARD	E	Faculty of Engineering Technology (FETech)
Noor Miza Bt. Abd Kadir, Dayang Khadijah Hamzah, Faizah Abu Bakar	Auto Unlock Door	E	Faculty of Engineering Technology (FETech)
Syed Iqmal Hakim Bin Syed Ibrahim, Dayang Khadijah Hamzah, Faizah Abu Bakar	Home appliance control based on smart mobile phone	E	Faculty of Engineering Technology (FETech)
Mohd Haniff Bin Mohamad Rodilli, Ahmad Fariz Bin Hasan, Mohd Fikri Bin Che Husin	IN HOUSE ARM7 DEVELOPMENT BOARD	E	Faculty of Engineering Technology (FETech)
Muhamad Luqmanul Hakim Bin Mohd Asri, Dayang Khadijah Hamzah, Faizah Abu Bakar	Mobile-phone-based Controller	E	Faculty of Engineering Technology (FETech)
Muhammad Adam Bin Hamidon, Muhammad Asmi Bin Romli, Abdul Hafizh Bin Ismail, Muhammad Ezanuddin Bin Abdul Aziz	Multiplatform Lecture Hall Display System Using L.A.M.P Integration	E	Faculty of Engineering Technology (FETech)
Azam Lukman Bin Abdullah, Mohammad Shafee Ismail B. Md Alimon, Muhammad Aidil Faiz B. Ismail, Mohd Fikri Bin Che Husin, Ahmad Fariz Hasan, Mohd Norhafiz Hashim, Roslin B. Jamaludin	Security Cam Server System	E	Faculty of Engineering Technology (FETech)
Nurul Najwa Binti Yusof, Faizah Abu Bakar, Dayang Khadijah Hamzah	Smart Alarm	E	Faculty of Engineering Technology (FETech)

Muhammad Faizul Bin Azman, Dayang Khadijah Hamzah, Faizah Abu Bakar	Smart Controller	E	Faculty of Engineering Technology (FETech)
Nadira Binti Anuar, Ahmad Fariz Bin Hasan, Mohd Fikri Bin Che Husin, Mohd Norhafiz Bin Hashim	Smart Locker System	E	Faculty of Engineering Technology (FETech)
Nurul Mirza Izzati Binti Mohd Rafi, Dayang Khadijah Hamzah, Faizah Abu Bakar	Swift Sharpener	E	Faculty of Engineering Technology (FETech)
Muhammad Ilmi Bin Sain, Faizah Abu Bakar, Dayang Khadijah Hamzah	Unattended-child alert system	E	Faculty of Engineering Technology (FETech)
Muhammad Iqbal Shah Bin Ismail, Nik Noriman Zulkepli	UNI-DRAIN HOE	F	Faculty of Engineering Technology (FETech)
Ainaton Nadhirah Bt Azmi, Gan Pei Gie, Kuan Jing Yi, Sam Sung Ting, Nik Noriman Bin Zulkepli	Agri-mate	A	School of Bioprocess Engineering
Ms. Hanna Ilyani Binti Zulhaimi, Nora Jullok, Lee Yen Fong, Choo Yen Mei, Lalatul Azizah Bt Mohd Kilisan, Muhammad Suhail Bin Mohd Isa	An Integrated Approach by Combining AOPs and BSF to Treat Various Types of Wastewater.	A	School of Bioprocess Engineering
Mageswaran Murugiya, Noor Shazliana Aizee Bt Abidin, Siti Nadherah Mohamad	Development of Hi-5ber Jackfruit (Artocarpus heterophyllus) Inner Skin Patties.	A	School of Bioprocess Engineering
Noor Shazliana Aizee Bt Abidin, Siti Nadherah Mohamad	Investigation of Antibacterial Activity of Perlis Sunshine Mango Pulp and Seed Kernel Powder Extract	A	School of Bioprocess Engineering
Koh Wan Wen, Anis Atikah Ahmad	Optimization of Dye Removal Condition using Grass Waste	A	School of Bioprocess Engineering
Norfadhila Binti Abdullah Zawawi, Cik Anis Atikah Binti Ahmad, Farizul Hafiz Kasim	Optimization of Steam Gasification System for Syngas Production Using Imperata Cylindrica	A	School of Bioprocess Engineering
Amera Noordeka Binti Adnan, Nurwafaa Binti Zukimin, Nur Syazwana Binti Hasmadi, Pang Cei Hual, Tey Li Ping, Nora Jullok	Wastewater Treatment using Membrane from Waste Plastics	A	School of Bioprocess Engineering
Harbant Singh, Chu Sue Yin, Toh Yee Leen, Soon Vinny, Lo Shao Ting	Larvicidal and Antibacteria Effect of Cerbera Fruit Extract on Aedes Mosquito and Salmonella Bacteria	C	School of Bioprocess Engineering
Azamuddin Bin Daud, Ayu Fitri Haziqah Binti Sallehuddin, Shahrul Hussain Bin Shahul Hamid, Muhammad Hafiz Bin Abdul Karim	AUTOMATIC MOBILE ROBOT FOR PLANT DISEASE DETECTION	A	School of Computer & Communication Engineering
Shahrul Hussain B. Shahul Hamid, Muhammad Amin Zunaidi Bin Zainal Abidin, Elida Edora Binti Ramli, Muhammad Syafiq Bin Mohd Sharif	DEVELOPMENT OF AUTOMATED FRUIT GRADING SYSTEM	A	School of Computer & Communication Engineering
Nur Farhana Mohd Azman & Hilal Adnan Fadhil	Development of Optical Glucose Biosensor	C	School of Computer & Communication Engineering
Muzammil Jusoh, Rajeshree A/P Vejasegaran, Azim Haikal Bin Zianal, Logendran A/L Vellasami, Thennarasan Sabapathy	A Compact MIMO Antenna for Smart Phone Application	E	School of Computer & Communication Engineering
Muzammil Jusoh, Nurul Najwa Binti Mohd Daud, Rajeshree A/P Vejasegaran, Azim Haikal Bin Zianal, Thennarasan Sabapathy	A high gain microstrip antenna using magnetic flux system based on WPT techniques	E	School of Computer & Communication Engineering

Muzammil Jusoh, Logendran A/L Vellasami, Rajeshree A/P Vejasegaran, Nurul Najwa Binti Mohd Daud, Thennarasan Sabapathy	Adaptive Beam Microstrip Patch Transceiver Using PIN Diode Switch for RADAR Application	E	School of Computer & Communication Engineering
Saidatul Norlyana Azemi, Noormalsarah Binti Mohd Tariq, Nurul Raniza Hanim Binti Mohd Rosni, Muhammad Fakhru Amir Bin Mohd Fadil	Analysis and design of 3-D Frequency Selective Surfaces	E	School of Computer & Communication Engineering
Saidatul Norlyana Azemi, Syaiful Anas Bin Suhaimi, Nurul Adila Binti Abd. Rahim, Nor Hamizah Binti Mohd Tajudin	Development of 3-D Miniature Antenna	E	School of Computer & Communication Engineering
Muzammil Jusoh, Azim Haikal Bin Zianal, Logendran A/L Vellasami, Nurul Najwa Binti Mohd Daud, Thennarasan Sabapathy	Dual-band Textile Antenna for 2.4 GHz and 5.8 GHz Application	E	School of Computer & Communication Engineering
Ku Nurul Fazira Ku Aziz, Muzammil Jusoh, Azim Haikal Bin Zianal, Logendran A/L Vellasami, Nurul Najwa Binti Mohd Daud, Rajeshree A/P Vejasegaran, Mohd Nur Hamzani Bin Mohd Nor Azni	Home Automation System	E	School of Computer & Communication Engineering
Muhammad Faiz Bin Ab Khalid, Salina Binti Mohd. Asi	IMPLEMENTING STEGANOGRAPHIC ALGORITHM IN IMAGE AUTHENTICATION APPLICATION	E	School of Computer & Communication Engineering
Mohd Najmuddin Bin Mohd Hassan, Prabu A/L Kaliappan	LANDSLIDE MONITORING SYSTEM	E	School of Computer & Communication Engineering
Siti Mastura Binti Dimyathi, Puan Salina Binti Mohd Asi	MOSQUE MANAGEMENT INFORMATION SYSTEM	E	School of Computer & Communication Engineering
Nurul Ain Binti Musa, Naimah Binti Yaakob	PERFORMANCE STUDY ON THE EFFECT OF NODE DENSITY ON CONGESTION CONTROL IN WIRELESS SENSOR NETWORKS (WSN).	E	School of Computer & Communication Engineering
Nurul Hamimi Binti Halim, Naimah Binti Yaakob	The Effectiveness of Network Clustering in Minimizing the Traffic Congestion in Wireless Sensor Network	E	School of Computer & Communication Engineering
En Ahmad Zaidi Bin Abdullah, Kumaran A/L Letchimanan, Mohammad Harith Bin Amlus, Masturah Bt Mohd Shari, Wan Atifah Bt Wan Chik, Nur Irliyana Binti Mohamed Zaid, Norfaraniza Binti Mohd Nazer	DESIGN AND DEVELOPMENT OF SMART BUS STOP FOR UNIMAP	A	School of Electrical System Engineering
Azuwa Binti Ali, Muhammad Syafiq Bin Muhammad Aji	DEVELOPMENT OF RAIN ENERGY HARVESTER FOR LOW LOAD APPLICATION	A	School of Electrical System Engineering
Mohd Fahmi A Razak, Norkharziana Mohd Nayan, Noor Haqqimi Abd Rahman, Nor Azuwa Ali	Intelligence Rain Energy Harvester	A	School of Electrical System Engineering
Norkharziana Mohd Nayan	Smart Solar Energy Tracking System	A	School of Electrical System Engineering
Nor Ashbahani Binti Mohamad Kajaan, Lian Chai Wei	A study of Non-isolated DC-DC Cuk Converter with multiple outputs	E	School of Electrical System Engineering
Abdul Syukor Bin Md Saffuddin, Huan Cui Ying, Muhammad Mahadzir Bin Abdul Halim, Mohamad Afiq Izzat Bin Ahmad Tazally, Nur Hakimah Binti Zulkiffeli, Pn. Khairul Nadiah Binti Khalid, Khor Shing Phan	Crosswind Alert	E	School of Electrical System Engineering

Nurhakimah Binti Mohd Mukhtar, Muhammad Ashraf Bin Johari, Khairul Ikrum Bin Mat Isa, Muhammad Safwan Bin Abd Rahman, Mohd Heimi Bin Mohd Sabri, Muhammad Syazwan Bin Zulkifli	DESIGN AND MODELING WIRELESS SOLAR DATA LOGGER SYSTEM	E	School of Electrical System Engineering
Muzaidi Bin Othman @ Marzuki, Azralmukmin Bin Azmi, Soo Jian Aun, Engku Azra Idham Bin Engku Abdul Halim	Motorize Cabinet System with Android Based	E	School of Electrical System Engineering
Ahmad Zaidi Bin Abdullah, Norhanisa Binti Kimpol, Nurhafiza Bt Azizah, Diyaa Hidayah Bt Abd Rahman, Habibah Bt Hj. Mokhtaruddin, Nur Iriyana Binti Mohamed Zaid	TRAINING KIT OF WIRELESS CONTROLLER FOR QUADCOPTER	E	School of Electrical System Engineering
Yong Chin Yii, Harvinder Kaur Lehl, Ong Soon An, Ho Li Ngee, Wong Yee Shian, Farah Naemah, Oon Yoong Ling, Oon Yoong Sin, Thung Wei Eng	Anaerobic-aerobic Baffled Constructed Wetland (ABCW) Reactor	A	School of Environmental Engineering
Tan Sze Yen, Fahmi Muhammad Ridwan	REGENERATION OF SPENT ACTIVATED CARBON FROM WASTEWATER TREATMENT PLANT APPLICATION	A	School of Environmental Engineering
Syaza Nasuha Binti Mustapha, Sarah Farida Binti Abdul Rahman, Saiful Azhar Saad	SUGASORB: Adsorbent for Dyes Removal from Industrial Effluent	A	School of Environmental Engineering
Koid Chun Ling, Ayu Wazira Binti Azhari	Textile Effluent Dye Sensitized Solar Cell	A	School of Environmental Engineering
Nurul Muniroh Bt Mahadhir, Nazuhaira-Nasrin Bt Khalid, Muhammad Khairy B Md Naim, Ahmad Faizal Bin Annuar, Mohd Syedi Imran Bin Mohd Dawi	AUDICEPTION BRIGHT	A	School of Manufacturing Engineering
Mohd Kamarulzaman Bin Kadir, Mohamad Azmin Bin Mohd Ludin, Muhammad Khairy B Md Naim, Ahmad Faizal B Annuar, Mohd Syedi Imran B Mohd Dawi	TACTIOLIGHT	E	School of Manufacturing Engineering
Ahmad Humaizi Bin Hilmi, Adibah Binti Hamid, Nurul Aida Binti Mohd Mortar, Nurasmida Binti Muhammad Azmin, Siti Nurliana Binti Mohamad Hatta, Muizzudin Bin Rozali	Explosive Compaction	F	School of Manufacturing Engineering
Ahmad Humaizi Bin Hilmi, Adibah Binti Hamid, Nurul Aida Binti Mohd Mortar, Nurasmida Binti Muhammad Azmin, Siti Nurliana Binti Mohamad Hatta, Muizzudin Bin Rozali	High Impact Penetrator	F	School of Manufacturing Engineering
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Gita Aminia Aya, Shahirah Nabilah Binti Shahrani	DRAGON FRUIT PEEL BIOCOSMETICS FILM	A	School of Materials Engineering
Chew Li Li, Leong Ju Ann	EMPTY FRUIT BUNCH BIOFIL	A	School of Materials Engineering
Mohd Hakim Bin Ibrahim, Puan Siti Zaharah Binti Ahmad, Sharifah Shahnaz Binti Syed Bakar, Shuhaida Binti Yahud, Luqman Bin Musa, Mohd Baidi Bin Bahari, Yu Chye Wah, Khathiresan V.Sathasivam	EZY Bedpan	C	School of Materials Engineering
Kathiravan A/L Suppiah	BIOPLAST CORN COB PACKAGING	D	School of Materials Engineering
Chua Yik Liang, Cheng Shu Yen, Tan Boon Sheong, Heng Chun Wei, Adrian Lau Chee Onn, Salmah Husseinsyah	COCO-PACK	D	School of Materials Engineering

Nur Amira Sahirah Bt Abdullah, Santhi Dewi A/P Perumal, Janaranjani A/P Vasudevan, V. Thiviya A/P P. Vijayarajah	ECO-PLAST AGROWASTE	D	School of Materials Engineering
Syarifah Aminah Bt Ismail, Noorina Hidayu Bt Jamil, Mohd Arif Anuar Bin Mohd Salleh, Mustafa Al Bakri Abdullah, Kamarudin Hussin	Extraction Of Sn from lead free Solder Dross using Organic leachant	D	School of Materials Engineering
Muhammad Hafiz Bin Zan @ Hazizi, Azmi Bin Kamardin, Mohd Arif Anuar Bin Mohd Salleh, Norhayanti Binti Mohd Nasir, Mohd Izrul Izwan Bin Ramli, Rita Binti Mohd Said, Fatin Afeeqa Binti Mohd Sobri	Graphite as an Intermetallic Compound (IMC) substitution for a robust solder joint.	D	School of Materials Engineering
Zawawi Bin Mahim, Sayyidah Amnah Binti Musa, Norainiza Binti Saud, Nurul Razliana Bte Abdul Razak	SAC-SiC : NEW POTENTIAL LEAD-FREE COMPOSITE SOLDER FOR GREEN TECHNOLOGY	D	School of Materials Engineering
Nisrin Binti Adli, Nurul Razliana Binti Abdul Razak, Norainiza Binti Saud	SnCu/Al Solder Alloy : An Alternative High Temperature Lead-Free Solder	D	School of Materials Engineering
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Ruslizam Daud, Khairul Rafezi, Ooi Seng Chew, Fizam Zainon, Mohd Shukry Abd. Majid, Mohd Afendi Rojan, Khairul Anuar Hamid	A Prototype of New Reinforced AA332 Aluminum Alloy Piston based on Thermo-mechanical Finite Element Analysis.	B	School of Mechatronic Engineering
Shahrizan Abu Bakar, Mohd Norhanif B Husain, Muhammad Nor Hafiz B Mat Isa, Mohamad Syafiq Bin Abdul Khadir, Mohammad Syahir B Othman, Jackie Lee Yew Yu, Farah Wahida Bt Ismail	MECHLIFT	B	School of Mechatronic Engineering
Mohd Afendi Bin Rojan, Umar Mishary Bin Mohd Afendi	Prototype of Simple Toothpaste Dispenser	B	School of Mechatronic Engineering
Mohd Faiz Bin Azmi, M. Hariharan, Chawki Berkai	Intelligent System for BMI Status Prediction	C	School of Mechatronic Engineering
Woon Sook Quin, M. Hariharan, Oung Qi Wei	Non-invasive Detection System for People with Parkinson's Disease	C	School of Mechatronic Engineering
Reena Sri Selvarajan, M. Hariharan	Assessing Cognitive State of An Individual Using Brain Signal	E	School of Mechatronic Engineering
Endik Arinal, Osbertt Leong, Muhammad Jiyad, Syafiq Razak, Saidatul, Najib, Azremi, Hasnizam Hanafi, Muhajir, M.Fareq, M. Fitra	Development on wireless power transfer using magnetic resonance to light up a bulb	E	School of Mechatronic Engineering
Mohamad Fadhil Bin Mohamad Din, Wan Shahrizal Bin Wan Nadhari	MOBILE ROBOT TEMPERATURE SENSING SYSTEM VIA SMARTPHONE	E	School of Mechatronic Engineering
Slow Lean Thiam, Mohd Hafiz Fazaful Rahiman, Thomas Tan Wan Kiat, Vernoon Ang Wei Neng	Wire-Mesh Tomography Sensor	F	School of Mechatronic Engineering
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Roshila Mohd Lazim, Uda Hashim, Nor Azizah Parmin	Fabrication of TiO ₂ Particle Based IDE and Immobilization Different Concentration of Synthetic HPV DNA Probe for Cervical Cancer Detection	C	School of Microelectronic Engineering
Siti Raqeema Binti Ali, Hashim, Nor Azizah Parmin	Fabrication of TiO ₂ Particle Based IDE and Inorganic-Surface Modification using Organosilane for Cervical Cancer Detection	C	School of Microelectronic Engineering
Chang Hui Yi, Mohd Khairuddin Md Arshad, Mohammad Nuzaihan Bin Md Nor	Gold Nanoparticles Embedded Silicon Channel Biosensor for Improved Sensitivity	C	School of Microelectronic Engineering
Muhammad Aidil Faiz Bin Ismail, Fitri Amiril Bin Zulkaffli, Wan Azlianawati Binti Wan Aziz, Mohd Rosyidi Zakaria	"YOUR FIRST ROBOT" ROBOTIC LEARNING KIT	E	School of Microelectronic Engineering
Venodh S/O Supramaniam, Pn.Hariyanti Mohd Saleh, En Salehuddin Bin Saad	Alcohol and Impact Detection In Car Accident prevention on Intel Galileo with GSM.	E	School of Microelectronic Engineering
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Tan Khey Loon, Ahmad Syahir Bin Ahmad Bakhit, Mohd Natashah Bin Norizan, Mohamad Najib Mohd Yassin	Cell Phone Controlled Robotic Vehicle	E	School of Microelectronic Engineering
Muhammad Firdaus Bin Mohd Radzi, Tengku Muhammad Aiman Bin Tengku Md. Yussof, Mohd Nazrin Bin Md. Isa, Mohd Fikri Bin Che Hussin	SMART FLOOD WARNING SYSTEM (S.F.W.S)	E	School of Microelectronic Engineering
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4	Romanian Inventors Forum (RIF) Special Award
5	Universitas Ubudiyah Indonesia (UUI) Special Award
6	Korea University Invention Association (KUIA) Special Award
7	Indonesian Invention and Innovation Promotion Association (INNOPA)
8	Malaysian Research & Invention Society (MyRIS) Special Award
9	International Federation Inventors Association (IFIA) Special Award
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