



UNIVERSITI
TEKNOLOGI
MARA

Cawangan Pulau Pinang

PROGRAMME BOOK



**"EMPOWERING A SUSTAINABLE FUTURE
THROUGH SMART INNOVATION"**

Organizer:

Research Management Unit (RMU)

Co-Organizer:

**Chemical Engineering Studies,
Universiti Teknologi MARA Cawangan Pulau Pinang.**



PROGRAMME BOOK

PENANG INTERNATIONAL INVENTION, INNOVATION, AND DESIGN

Universiti Teknologi MARA
Penang Branch

2025

**“Empowering a Sustainable Future Through
Smart Innovation”**

Organized by
Research Management Unit (RMU)
in collaboration with
Chemical Engineering Studies
Universiti Teknologi MARA
Penang Branch



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Message From

Director of PIID 2025



First and foremost, I wish to express my deepest appreciation to the Honourable Dato' Dr. Mohamad Abdul Hamid, Deputy Chief Minister I of Penang for his willingness to officiate the closing of PIID 2025, and to present prizes to the winners. The Honourable's presence is a symbol of the state government's strong support for efforts to build a creative and innovative society. PIID 2025 has been growing in popularity ever since its first hosting in 2011. It has become a primary platform for innovators who came from various background – schools, universities, technical institutions, industries and professionals.

This year, PIID 2025 recorded a very impressive participation with 267 innovators from across the country. The entries covered three main categories, namely schools, university and technical institution students, as well as academia, industry, and professional categories.

What makes it even more interesting is that the competition was conducted online through video presentations, allowing the judges to evaluate more transparently and giving more people the opportunity to participate regardless of location.

PIID 2025 also showcases a diversity of fields of participation, not only in science and technology but also encompassing social sciences. This reflects that innovation is not limited to laboratories and technology alone, but also in how we address the challenges of community life.

The objectives of PIID 2025 are clear. First, to cultivate a culture of innovation at the grassroots level. Second, to foster creativity that can be commercialized. Third, to produce scholars and researchers with an innovative spirit. And finally, to enhance the visibility of Malaysian innovators on the international stage. This is the spirit that has been the heartbeat of PIID since it was first organized.

To all participants, I want to emphasize that you are all winners. Each entry is proof of the courage to share ideas, proof of creativity in seeking new solutions, and proof of commitment to contributing to society and the nation. I believe that the innovations presented at PIID 2025 are not the endpoint, but rather the beginning of a longer journey.

Before concluding my speech, allow me to extend my deepest appreciation to the entire PIID 2025 committee, sponsors, industry partners, judges, and all parties who have contributed to the success



of this program.

May PIID continue to serve as a key platform for producing more innovators, sparking more inventions, and ultimately contributing to our aspiration of making Malaysia a developed, competitive, and innovative nation.

Prof. Dr. Abdul Hadi

Director

Penang International Invention, Innovation and Design 2025



Message From

Acting Rector of UiTM Penang Branch



First and foremost, allow me to express my deepest appreciation to The Honourable Dato' Dr. Mohamad for his willingness to be with us this historic afternoon, to officiate the closing of PIID 2025, and to present prizes to the winners. The Honourable's presence is a symbol of the state government's strong support for efforts to build a creative and innovative society.

I would like to extend my heartfelt congratulations and commendation to the organizing committee of PIID 2025, who have worked tirelessly to ensure the resounding success of this event. With the participation of 267 innovators from across the country, PIID has once again proven that the spirit of invention in Malaysia and Penang has never faded, but is in fact flourishing and vibrant.

Innovation, ladies and gentlemen, is not merely about technology or products. It is about how we think, our courage to challenge conventions, and our determination to find better ways. At this university, UiTM, we have never regarded innovation as mere rhetoric; it is a trust. A trust to develop society, to serve the community, and to uplift the dignity of the nation.

In the recent address by the Vice Chancellor of UiTM, we were reminded that the university must serve as a platform that democratizes knowledge, that connects research with the needs of society, and that ignites the torch of creativity and leadership among students. UiTM's role is not only to produce graduates, but to nurture individuals who possess values, idealism, and resilience.

PIID 2025 is living proof of how UiTM Penang Branch can play that role. Here we witness school students, university and technical institute students, as well as researchers and professionals – all standing as equals – presenting ideas and inventions that can bring benefits to the nation and to humanity.

On this occasion, I would like to express my deepest appreciation to the sponsors who have made PIID 2025 even more meaningful. Thank you to the platinum sponsor, Qarbotech Sdn. Bhd., for taking the lead in supporting this innovation ecosystem. Gratitude also goes to the silver sponsors – Kedai Tayar Apal SP and Switch, CG Computer Sdn. Bhd. Not to be forgotten are the bronze sponsors who have joined in strengthening our steps: THB Maintenance Sdn. Bhd., Rimbunan Sinergi Sdn. Bhd., Kamaruddin Harun Consultants Sdn. Bhd., Alpha Gas Solutions Sdn. Bhd., LBP Technic Global Sdn. Bhd., Global Plus Solutions Sdn. Bhd., EMZI–UiTM Nanoparticles Colloids



Interfaces Industrial Research Laboratory (NANO-CORE), and UiTM Perlis Branch. Your support is a testament to the trust in the innovative potential of our nation's youth.

I wish to remind everyone that the strength of a nation does not lie solely in the wealth of its resources, but in the creativity and courage of its people to innovate. Nelson Mandela once said, "It always seems impossible until it's done." With PIID as the platform, we are sowing the seeds of creativity, and from those seeds will grow the tree of national progress.

To all participants, I extend my congratulations and commendation. Each of your ideas is a small light that has the power to illuminate the path to the future. Do not stop here. Continue your efforts, continue your courage, for the world awaits your contributions.

In conclusion, let us together make innovation a way of life. From campus to community, from the grassroots to the international stage – let UiTM continue to be known not only for its size, but for its spirit and contributions.

Prof. Dato' Ir. Dr. Hj. Ahmad Rashidy Razali
Acting Rector
Universiti Teknologi MARA Penang Branch



Message From

the Deputy Chief Minister I of Pulau Pinang



I would like to extend my congratulations to Penang International Invention, Innovation and Design Competition 2025 (PIID 2025) Organizing Committee for their commitment and hard work in ensuring the success of this program. My gratitude also goes to all individuals, institutions, and agencies who have contributed, whether directly or indirectly.

I would like to take this opportunity to express special appreciation to the sponsors who have supported the success of PIID 2025. My thanks go to the platinum sponsor, Qarbotech Sdn. Bhd.; the silver sponsors, Kedai Tayar Apal SP and Switch, CG Computer Sdn. Bhd.; and the bronze sponsors – THB Maintenance Sdn. Bhd., Rimbunan Sinergi Sdn. Bhd., Kamaruddin Harun Consultants Sdn. Bhd., Alpha Gas Solutions Sdn. Bhd., LBP Technic Global Sdn. Bhd., Global Plus Solutions Sdn. Bhd., EMZI–UiTM Nanoparticles Colloids & Interfaces Industrial Research Laboratory

(NANO–CORE), as well as UiTM Perlis Branch. Your contributions are clear proof that the innovation ecosystem can only flourish through close collaboration between universities, industry, community, and government.

PIID 2025 is clearly an outstanding platform to foster a culture of research, innovation, and invention, not only within higher education institutions but also in industry and the global community. Through participation in PIID, participants have the opportunity to exchange ideas, gain inspiration, and sharpen their creativity in producing better innovations.

This program is very much in line with the Malaysia MADANI vision introduced by the Honourable Prime Minister. The six MADANI Pillars – sustainability, prosperity, innovation, respect, trust, and compassion – are the foundation of building a progressive and balanced nation. Today, through PIID, we are manifesting one of the most important pillars, namely Innovation.

Innovation is the courage to generate new ideas, the ability to create solutions, and the determination to shape something beneficial for society. This is what we are witnessing through PIID – young people, researchers, and innovators from diverse backgrounds, all contributing to the nation's wealth of innovation.

In Penang, this spirit is very much aligned with the vision of Penang2030 – “A Family-Focused



Green and Smart State that Inspires the Nation.” In the Penang2030 roadmap, we emphasize the need to build a creative industry ecosystem, strengthen the digital and green economy, and increase the participation of youth, women, and communities in social development. PIID 2025 stands as proof that this strategy is being translated into reality – an inclusive platform that connects society, academia, and industry.

In line with the theme of PIID 2025: “Empowering a Sustainable Future Through Smart Innovation”, I believe that the creative ideas born from this competition are not only capable of penetrating national and international markets, but also contributing to the green economy agenda, industrial digitalization, and future sustainability.

In the context of human capital development, innovation is no longer an option but a necessity. We must train the younger generation not only to master knowledge, but also to be courageous in creating, thinking beyond conventions, and becoming problem solvers. PIID is the best platform to unlock new potential and nurture the inventors of the future. I am confident that UiTM Penang Branch, as the host, will continue to support participants in producing innovative creations and assist in marketing their products through programs such as PIID. Universities must remain beacons of knowledge that enlighten society.

In conclusion, let us make PIID a continuous platform to drive innovation that takes root in campuses, blossoms in industry, and bears fruit in the lives of the people. May this effort contribute to the aspirations of Malaysia MADANI and bring Penang one step closer to realizing Penang2030.

Dato’ Dr. Mohamad Abdul Hamid
Deputy Chief Minister I
Pulau Pinang



About PIID 2025

Penang International Invention, Innovation and Design (PIID 2025) is a **virtual innovation** event organized by the Research Management Unit in collaboration with the Chemical Engineering Studies Department, Universiti Teknologi MARA, Cawangan Pulau Pinang. This platform aims to showcase the creativity and expertise of students, academicians, industry players, and professionals in presenting their innovations, inventions, and designs across various disciplines, including science, technology, engineering, mathematics, and social sciences. It is also in line with the government's policy to encourage research activities in Malaysia and Sustainable Development Goals. Besides, this event is motivated by the previous success of PIID 2023. This event is a competition in product commercialization, idea, invention and design that has a high quality innovation. The competition will be judged by juries from the industry and academia with experiences in innovation, commercialization and research. PIID 2025 promote 'Empowering a sustainable future through smart innovation' as a competition theme.

PIID 2025 is organized to promote following objectives:

1. To promote an innovation culture among students, academicians, researchers in Institute of Higher Learning, Technical Institution and schools at local and international level.
2. To cultivate invention, innovation and design towards commercialization at local and international level.
3. To produce scholar among academician and researcher based on invention and innovation culture in all related field.
4. To enhance visibility of researcher and inventor locally and internationally.



Organising Committee

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Prof. Dato' Ir Dr Ahmad Rashidi Razali

Advisor

Assoc. Prof. Ts. Dr Kay Dora Abdul Ghani

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Mohd Syafiq Abdul Rahman

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Jury

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Dr. Siti Sabrina Mohd Sukri
Roz Azinur Che Lamin
Nur Basiroh Mohd Rahim
Muhammad Asyraf Mat Nawi
Muhammad Amirul Rasidi



List of Projects

Category A (SCH): School Student

- SCH-ET-A-1005 DYE REMOVAL FROM ART CLASS WASTE SOLUTION USING GREEN PKFAD- DR. ART CLEANER**
Siti Fatimah Abdul Halim, Ainnur Marissa Mohd Syukri, Amanda Delisha Amriyusfarizul, Nur Khairina Zahra Mohammad Kamarul Zaini
- SCH-ET-C-1008 BOSSTER TEKanan TINGGI**
Mohd Najib Hamdan Bin Mohd Zin, Dhia Amni Aleesya Binti Mohd Lukman, Aleeyah Fatehah Bt Khairul Shafiee, Nurul Dania Dalisya Bt Rozailan
- SCH-ET-D-1016 SUSTAINABLE PAPER FROM CONGO GRASS**
Siti Nurehan Binti Abd Jalil, Nur Afrina Syasya Binti Shahrul Azhar, Awa El Raisya Binti Abdul Manaf, Rania Azzahraa Binti Mohd Zawawi
- SCH-SC-C-1055 COLORCYCLE POT - CREATIVE REPURPOSE OF USED COLORED PENCILS**
Rasyidah Binti Alrozi, Afia Raisya Binti Mohamad Anuar, Alya Jasmin Binti Mohd Akhmal, Nur Safiyya Binti Abdullah, Dr. Rasyidah Binti Alrozi
- SCH-ET-D-1065 THE UNSUNG HEROES "ALLIUM FAMILY" FOOD WASTE**
Lim Poh Mei, William Woo Chi Ming, Bhanu Hrehaan Singh, Kheshav A/L Prem Kumar
- SCH-SC-D-1078 SMART LAUNDRY BASKET - LITTLE HELPERS AT HOME!**
Adhilla Bt Ainun Musir, Ajdaa Khadeeja Binti Muhammad Hafizuddin, Aathif Muhammad Bin Muhammad Hafizuddin, Adhilla Binti Ainun Musir
- SCH-SC-A-1083 ECO WATER ROCKET**
Prassaad A/L Subramaniam, Aathif Muhammad Bin Muhammad Hafizuddin, Muhammad Furqan Qays Bin Mohd Suhaili
- SCH-SC-A-1089 SB: SIMPULAN BAHASA CARD GAME**
Rafizah Binti Kechil, Nur Rania Zahra Binti Mohamad Rizal, Nur Rizqa Zahra Binti Mohamad Rizal, Nur Aisyah Binti Mohamad Adhar, Muhammad Musa Bin Nurul Akmal
- SCH-ET-C-1129 "ECOBAYPOT"-FROM KITCHEN TO GARDEN**



Selvashanthini A/P Govindan, Nur Zahra Ariana Binti Nur Khairudy, Nur Fathiyah Zahra Binti Mohd Farid, Nur Irdina Humaira Binti Mohd Safwan, Zara Nur Awatif Binti Jasmin

SCH-ET-C-1131 BLUE BLOOM BALM: A NATURAL CHILD-SAFE MOISTURISE FOR SENSITIVE SKIN

Arathai Din Eak, Marissa Arrinya Louis, Adelia Arraya Louis

SCH-ET-D-1137 ECOKISS: FROM SCRAPS TO SMILES; WHERE NATURE'S WASTE BECOMES LIP-SAVING GRACE

Srivalli A/P Chellvarajoo, Darshanaa A/P Jeevan Raj, Daanyaa A/P Jegathesa, Kavini Suresh Kannan

SCH-SC-A-1151 SELECT AND ANSWER YOUR IDIOMS TACTFULLY (SAY IT!)

Wan Noorli Razali, Muhammad Musa Bin Nurul Akmal, Nur Rizqa Zahra Binti Mohamad Rizal, Nur Rania Zahra Binti Mohamad Rizal, Muhammad Zharif Bin Mohd Azhar, Muhammad Hasif Faiq Bin Mohd Farid

SCH-SC-A-1193 TRIPLE "A" STUDY GAME BOARD

Nurul Sahida Fauzi, Muhammad Aqil Aniq Alfatih Bin Yuhadi, Nurul Sahida Fauzi

SCH-ET-A-1203 OIL BUSTER BIOCHAR FOR OIL SPILL REMEDIATION

Norhusna Mohamad Nor, Ammar Hakeemi Abdul Muiz

SCH-ET-C-1222 MIMBA LAVASIDE

Noorhafizah Binti Rasid, Amzarra Awufy Binti Azlan, Nur Marsya Khairina Binti Khairul Basri, Nur Fareeza Alefa Binti Mohd Adzha

SCH-SC-A-1223 MICROORGANISMS WORLD GAMES

Noorhafizah Binti Rasid, Sarah Aleeya Binti Muhammad, Nur Iris Imani Binti Taslim, Muhammad Faris Naufal Bin Mohd Fitri

SCH-ET-D-1237 RAIN-SAVER: SOLAR-POWERED RAINWATER COLLECTOR AND DRIPPER FOR SCHOOL GARDENS

Thenmolli Vadeveloo, Delaxshan A/L Nagarajah, Viggannahara A/L Nagarajah

SCH-SC-A-1256 IQRA MICROSITE

Barizah Binti Ishak, Nur Aisara Asyrani Binti Md Amin, Arman Hadif Bin Musthafa, Ahmad Aizat Ariff Bin Adnan, Harith Umar Bin Mohd Khairul Aizuddin

SCH-SC-A-1302 BUSY BRAINY BOARD

Fatin Damia Binti Nor Amin, Inara Alisha Binti Nurashraf Huzaini, Nur Nairah Hanania Binti Mohd Nidzam Shafiq

SCH-SC-A-1305 CLASSIFY-IT! - INTERACTIVE CONDUCTOR & INSULATOR IDENTIFIER



Nurzahaslinda Ab Jalil, Nada Dhia Azra Mohd Firdaus, Hazmi Wafiy Mohd Khairul Anuar, Nada Dian Aufa Mohd Firdaus, Nada Dyra Ayra Mohd Firdaus

SCH-ET-D-1312 NATURAL FERTILIZER SYSTEM

Panissah Arumugam, Izahis Bin Mohd Jali Hissan, Izzat Rizqi Bin Imran, Muhammad Adam Rifqi Bin Azanizam, Ahmad Hafiz Subhi Bin Muhammad Jarir

SCH-ET-D-1313 PLANTERRA FOR SUSTAINABLE FARMING

K.Maliga Kalliappan, Nuraiesya Insierra Binti Iskandar Zulkarnain, Tengku Alisha Humaira Bt Tengku Khairul Nizam, Dhiya Alisha Binti Mohammad Suzimie, Aisya Faiha Binti Ainin Akmar

SCH-ET-D-1319 "BalutBite" "BalutBite" Goodbye, paper waste. Hello edible cupcake wraps! (Balut, Makan, Senyum!)

Nurul Aida Binti Sulaiman, Iman Sofea Binti Ahmad Farhan Yamin, Saidatul Najad Binti Shahidan, Saidatul Najla Binti Shahidan

SCH-ET-D-1322 ECO HEAT POT STAND

Mogan A/L Yanasigeran, Melanie Nadia A/P Jagadasen, Surutii A/P Mugilan, Kishara A/P Thiruselvam, Thesigan A/L Arun

SCH-ET-D-1325 SAFARI MEGA DRYER

Mogan A/L Yanasigeran, Hessheni A/P Mathaven, Aishwarya Sattiskumar, Varen A/L Vel Murugan, Thaneshwar A/L Kanapathy, Abrianna Ruth A/P Anthony

SCH-ET-D-1329 MOFA SAFE PLANET

Mogan A/L Yanasigeran, Kabinaya Kali, Sailesh A/L Winod, Yugash Thever A/L Solaiappa Thever, Thavineish A/L Nagentheran, Suhasnitha A/P S Kumar

SCH-ET-A-1344 VAC-MR2

Noordiany Binti Sabturani, Mahira Sofia Binti Mahathir, Raisha Khaireena Binti Rozie Khan, Leenesha Ronett Leenaker

SCH-ET-D-1003 G-RAINBOWSOAP (USED COOKING OIL WITH SANDAL WOOD AND BLACK SEED)

Mohammad Norhazly Bin Mohd Hanif, Ku Irhammy Ku Ibrahim, Nuraleesya Qaisara Mohd Raimi, Shuhada Azminda Mohd Shukri

SCH-ET-D-1004 CB-SOAP

Mohammad Norhazly Bin Mohd Hanif, Mohd Aidil Afiq Bin Mohd Zaini, Muhammad Aqeeq Bin Rodzi, Adam Haris Bin Zulkifli

SCH-ET-A-1007 DR. OIL BEADS - DYE REMOVAL USING ALGINATE - WASTE COOKING OIL COMPOSITE BEADS

Zuriati Binti Osman, Nur Fadzlina Sofia Hairunmizi, Ainnur Zulaikha Mohd Syukri, Wan Nuriman Amni Wan Abdul Azir, Ahmad Mujahid Mohd Syukri, Zuriati Osman

SCH-SC-C-1012 NANO-SIZE BIXA DYES POWDER (FOR BATIK APPLICATION)



Razis Bin Rahim, Insyirah Binti Mohd Nizam, Wan Nurmadeena Putri
Binti Wan Mazlan, Razis Bin Rahim

- SCH-SC-A-1022 TABLE SETTING BOARD (TS-BOARD)**
Razis Bin Rahim, Izzati Nazifa Binti Ahmad Saudi, Puterley Adrieyna
Natasya Binti Abdullah
- SCH-ET-D-1026 THE NOCEB : "NEXT-LEVEL WASTE, NET-ZERO IMPACT"**
Mr. Go Seow Ann, Rakhaf Nair Raman Naiar, Raksha Nair Raman Naiar
- SCH-AS-C-1031 MEDITECH OXYPULSE ALERT SYSTEM**
Siti Sarah Bte Noor Meah, Ng Rui En
- SCH-ET-A-1057 DROP SAFE DEVICE**
Daniel Woo Chi Keung, Fong Ze Khai
- SCH-ET-C-1058 ALLIUM SATIVUM NATURAL ANTIMICROBIAL GEL**
Kogilavani A/P Sockalingam, Aathiswer A/L Alagendra, Muhammad Ezry
Aqeef Bin Norman Ezry, Ahmad Faris Imran Bin Ahmad Asmadi
- SCH-ET-D-1087 TRIPLE A CONDENSER CLEANER DEVICE (3ACCD) WITH IOT TECHNOLOGY**
Amirul Afzan Haiqal Bin Azmi, Muhammad Aniq Danish Bin Zulkefli,
Muhammad Aiman Hakim Bin Rahim, Mohamad Amri Bin Mat Jusoh,
Ahmad Faiz Bin Hamzah
- SCH-AS-C-1095 AETHERLINK**
Nurul Syazwani Binti Ismail, Darwish Rayyan Bin Khairil Anuar,
Ilavendran A/L Marimuthu, Muhammad Nuruddin Bin Mohamad Nazri
- SCH-ET-A-1104 AUTOMATIC JIG PIPE BEVEL PLASMA MACHINE**
Muhamad Azam Bin Ibrahim, Muhammad Akif Danish Bin Mohd Farid,
Mohamad Fakry Hilmi Bin Mohd Yusof, Muhammad Isma Danish Bin
Mohd Pazli, Syahmi Zuhairi B Mazlan, Ahmad Irfan Izzuddin B Ahmad
Azra Wadi
- SCH-AS-C-1113 INTELLIGENT MONITORING FOR GREASE AND OIL LEVEL (I.Mo.GOL)**
Siti Nur Aisha Binti Salleh, Mohamad Danish Bin Mohamad Irwan, Najmi
Hadi Bin Mohd Nozri, Putra Muhammad Rayyannaufal Bin Khazarai,
Muhammad Haikal Bin Ahmad Faisal
- SCH-AS-C-1133 RASEA RO**
Nathylyn Diane Imbong Tuchun, Muhammad Shad Bin M.A. Ahad, Afiah
Binti Ahmad Azharurazie, Akram Bin Ahmad Azharurazie, Rafiqah Nurul
'Aisy Binti Muhammad Redzuan, Nurul Nabilah Chen Binti Muhammad
Hassan Chen
- SCH-ET-A-1136 STABLE JACK CUTTING**
Mohd Dinie Hafiq Bin Adam, Aiman Adham Bin Abd Razak, Siti Suffy
Leeyana Binti Jamisan, Nurul Farhanis Binti Mohd Fairus, Muhammad
Nabil Bin Juhari, Muhammad Azim Bin Abd Rahman



- SCH-ET-D-1184 ECOSPARK: MINI BIOGAS DIGESTER FOR COOKING GAS AND FERTILIZER FOR RURAL AND FARMING COMMUNITIES**
Muhammad Adam Muhaimin Bin Mohamad Sukeri, Yumna Binti Shuhaib Ar-Rumy, Rahayu Binti Ahmad
- SCH-ET-C-1186 AG-LALANG: ECO-FRIENDLY NANO SILVER MASKS POWERED BY IMPERATA CYLINDRICA**
Zali Nasiah Binti Si Ramli, Amin Mursyidi Bin Mohamad Nazil, Eizzat Bin Mohamad Azam, Muhammad Azizan Bin Naim
- SCH-ET-A-1191 BATR.ES.CO: BIODEGRADABLE SEEDLING POT**
Norhusna Mohamad Nor, Adam Harith Bin Abdul Muiz
- SCH-AS-C-1201 CONTACTLESS SMART FACIAL RECOGNITION ATTENDANCE SYSTEM**
Aerun Martin, Littarshant A/L Loganathan, Thirru Ganesh A/L Sateisivam
- SCH-SC-A-1209 GEOFLASK**
Saidatul Ainoor Binti Shaharim, Nur Syafiqah Husna Binti Ahmad Kamal, Nur Yaniah Syasya Binti Yusri, Nur Anis Izzati Binti Zainudin, Ayra Putri Binti Khalil Azlan
- SCH-ET-D-1214 ECOPUF**
Saidatul Ainoor Shaharim, Khairil Shazwan Bin Shahrul, Wan Mirza Muslim Bin Wan Saiful Aizam, Hadif Harzan Bin Mat Yunus, Muhd Aidil Najwan Bin Asri
- SCH-SC-A-1217 INSPECTAROLL (VISUAL INSPECTION ROLLER JIG))**
Mohd Dinie Hafiq Bin Adam, Aiman Adham Bin Abd Razak, Nur Akma Sofea Mohd Nur Amin, Adam Danish Darwisy Bin Faizal, Muhammad Aqhari Fakhrullah Bin Mahadi, Ezzat Syahmi Bin Erween
- SCH-ET-D-1224 FILAMENAS**
Siti Suraya Jaffer, Marina Bt Hamdi, Dania Nurdayiny Bt Azmi, Nur Ainin Sofiya Bt Md.Zurin, Afira Farzana Bt Mohammad Fadhil, Jeevitha A/P Thiruppathy @ Maniam
- SCH-ET-D-1225 ECOPINE**
Siti Suraya Binti Jaffer, Muhammad Fahim Fikri Bin Aszam, Muhammad Adam Qayyum Bin Nik Mat, Ibnu Haiqal Bin Shahril, Danish Irsyad Bin Izwan
- SCH-ET-A-1226 FRIPP - Finger Recognition Integrated Personal Pass System**
Sorfina Adlyn Binti Muhamad Nazri, Arissa Balqis Careena Binti Affendi, Najla Amza Binti Sharuddin, Siti Juliana Abu Bakar
- SCH-ET-A-1232 FOREST SAVER WITH IOT SYSTEM**
Azlin Ainolniza Binti Sani, Rishika A/P Mageswaran, Thanissa A/P Ganason, Moveenashrri A/P Sri Ganesh
- SCH-ET-A-1234 THE ELECTRIC BARBECUE FLIP**



Mohamad Aliff Bin Mustapha, Muhammad Syahmi Danial Bin Za'aba,
Muhammad Nayril Syahmi Bin Mohd Nasir, Zahirul Nabihan Bin Zul Halim

- SCH-ET-A-1235 MESIN PEMERAH SANTAN SEMI-AUTO**
Muhamad Hafizudin Bin Kassim, Muhammad Zulhasif Bin Zulkifli, Ameer
Elfarish Bin Mohd Misijan, Ahmad Hazim Bin Amhad Shajuri
- SCH-ET-A-1247 ELECTRICAL SPRING VALVE PRESS**
Muhammad Faqihman Bin Surahamat, Muhammad Hariz Haziq Bin Rizal,
Muhammad Norhaikal Bin Solihin, Muhammad Faqihman Bin Surahamat
- SCH-ET-A-1248 BANARA SACK: ECO-FRIENDLY SACK MADE FROM
BANANA PSEUDOSTEM FIBERS**
Zaliyaton Nasirah Binti Si Ramli, Muhammad Danial Mohd Tarmizi,
Muhammad Syafi Sopian, Muhammad Al Fatih Azhar, Muhammad Allif
Rolee
- SCH-AS-C-1253 TRACK-ME**
Nor Hisham B Mohd Arshad, Muhammad Aidil Wafiy B Nor Hisham, Ainul
Wafa Bt Nor Hisham, Wardina Sofia Bt Nor Hisham, Nor Hisham B Mohd
Arshad
- SCH-ET-A-1254 TROLLEY FOR GEARBOX**
Aqella Huda Norman, Luth Mikail Bin Nelly Iszaidy, Muhammad Nur Haziq
Bin Razman, Mohd Hafizie Bin Abd Aziz
- SCH-ET-A-1257 PROJEK INOVASI PENYODOK PASIR MUDAH ALIH**
Nur Faezah Natasyah Binti Ahmad, Nur Amira Syahirah Binti Md Noor
Azlin, Muhammad Amin Bin Rosli, Abdul Latif Bin Sarpin
- SCH-AS-C-1260 SMART LOCKER**
Suhaili Binti Hanafi, Daffena Balqis Binti Md Fazilah, Muhammad Lukman
Nulhakim Bin Mohd Noh, Solehah Imanny Binti Hairun Na'Aim
- SCH-ET-D-1270 SMART AGRICULTURE WITH ARDUINO TECHNOLOGY**
Ravikumaran Kanisan, Sanjeevan Siritaran
- SCH-AS-C-1271 SMART DONATION BOX**
Fairus Binti Adam, Muhammad Daniesh Rezzuan Mohd Rashdan,
Muhammad Irwan Zulkifle, Muhammad Faris Zaqwan Mohd Zairie
- SCH-AS-C-1272 IOT HOME AUTOMATION**
Norazimah Binti Mohd Saleh, Muhammad Naufal Fikri Bin Mohd Adha,
Muhammad Nurhafiy Adam Bin Hairul Anuar, Adda Danea Binti Saifful
Nazri, Puteri Khaliesah Amani Binti Norman
- SCH-ET-D-1274 KINETIC ECOLAND**
Muhammad Ariff Bin Romli, Nurdalisya Zahra Binti Muhamad Hafis,
Nurhayati Binti Abdul Rahman, Adlina Delisha Binti Ahmad Firdaus, Nur
Haniesya Eryna Binti Shamsuri
- SCH-ET-A-1275 PROJECT OIL PALM SEED PICKER**



Nurul Ameera Binti Mohd Razip, Muhammad Haikal Bin Hazlan, Natasha Shahira Binti Azri, Muhammad Ghazali Bin Mohd Izraa'e

SCH-ET-A-1276 STACKGUARD - A CLOTHING FOLD STABILIZER FOR NEAT AND STABLE STORAGE

Zaliyaton Nasirah Binti Si Ramli, Hanis Nurthaqifah Binti Nazrul Akbar, Aleesya Zahra Syaiful Asmawi, Nur Umairah Nik Mat

SCH-AS-C-1280 SMART RECYCLE RANKER

Norhafizan Binti Abdul Wahab, John Nicholas Albert, Ahmad Adam Aniq Bin Ahmad Rouslee, Muhammad Hazim Salihin Bin Mohd Sokri, Mohammad A'Kif Bin Mohammad Hassnan, Yuvaranee A/P Mahavisnan

SCH-ET-D-1281 PAWER05: MOBILE PALM OIL REFINING MACHINE WITH CANDLE WAX MAKER

Norhafizan Binti Abdul Wahab, Norhayu Zahra Binti Zahari, Aina Qistina Binti Azahar, Fariesya Nursyahida Binti Fadzlie Effendy, Nur Izzah Auni Binti Ibrahim, Nur Umairah Binti Roslan

SCH-ET-A-1282 DINE N DISH

Norhafizan Binti Abdul Wahab, Nurelisa Maisara Binti Abdul Razak, Nur Rafiqah Ayuni Binti Abdullah, Nur Dania Khairini Binti Khairi, Nur Khaira Amani Binti Mohd Norezam, Nuha Insyirah Binti Khairuddin

SCH-AS-C-1284 MESIN RUMPUT KAWALAN JAUH

Syafiqah Binti Saban, Syahrie Rov Huzayl Bin Sanrigo, Muhammad Fahrin Haiqal Bin Tusiran, Muhammad Zikri Bin Mohd Ibrahim, Umar Qusyairi Bin Mohd Fitrazmin, Mohamad Denish Fiqrie Bin M.Mansor

SCH-ET-D-1285 PORTABLE SOLAR BOX

Syafiqah Binti Saban, Nur Nabilah Binti Mohd Sazali, Wan Abdullah Syamim Bin Wan Suffian, Muhammad Naufal Hageemy Bin Noor Hisyamuddin, Muhammad Amir Aiman Bin Abdullah, Muhammad Afiq Haikal Bin Mohd Faizal

SCH-ET-B-1298 TROLI SIMPANAN ALAT PERTUKANGAN KAYU (T-SAL)

Siti Fatiah Binti Ibrahim, Muhaimin Bin Saini, Mohamad Shakir Aiman Bin Halaji, Muhammad Syazwan Bin Asmadi, Ahmad Ezany Azrahimy, Zizie Izzati Binti Fadzli

SCH-ET-A-1300 FLEXIMER (MINI FIX TOOL)

Mohd Maizolakmal Bin Haron, Muhammad Nazirul Haziq Bin Abd Rahman, Muhammad Aiman Bin Affendy, Nur Irdina Binti Mohd Shah

SCH-ET-D-1327 COMPACT ROLLED ICE CREAM MACHINE WITH PELTIER TECHNOLOGY

Norsuhaila Binti Sapon, Nur Farisya Fariena Binti Zaharuddin, Amir Hazim Bin Jamaludin, Muhammad Shahrul Harith Bin Mohamad Azli

SCH-SC-A-1332 LBX CALCULATOR

Ahmad Yasir Bin Mustafa Bakri, Hajjar Binti Afzanisham, Nurul Irdina Binti Ishak, Nur Alisya Maisarah, Iffah Damia Binti Shahrizal

SCH-ET-D-1335 MMETABIOMAS - GENERATING CLEAN ENERGY FROM RICE HUSK



Zali Nasiah Binti Si Ramli, Muhammad Syiddiqin Bin Suriadi, Afiq Danial Bin Asmadi, Muhammad Zikry Haziq Bin Mohd Zamree

- SCH-ET-A-1336 KIT CLEANING SPLIT UNIT (EZ-WASH)**
 Rohani Binti Mohd Saat, Muhamad Ajmaien Bin Khalidon, Nurul Nabilah Binti Jasni, Hani Suhaira Binti Hanif Rezuwan
- SCH-SC-A-1337 HEARTBEAT: LEARNING THROUGH THE RHYTHMS OF THE HEART**
 Muhammad Farhan Bin Azlan, Nuruljannah Binti Abdrul Faizal, Aufa Nur Annur Binti Mohd Amin, Muhammad Zafran Ng Bin Affendi, Farihah Hanem Binti Ahmad Nazri
- SCH-AS-C-1345 SMART CABLE CUTTERWITH BLYNK NOTIFICATION SYSTEM**
 Ts. Mohd Shahril Bin Mohd Noor, Petahadi Bin Husein, Adik Nur Syafiqah Binti Jamaludin, Muhamad Amirul Haziq Bin Azman, Nur Insyirah Shazwana Binti Mohd Shahril
- SCH-ET-D-1349 PHOTOVOLTAIC- POWERED GREYWATER REUSE WITH MINI FILTER WATER SYSTEM**
 Nur Haida, Jivaneshrao Vengatrao, Lily Omar Badrin, Visrudti Vengatrao, Lim Eeson



Category B (UNI): University and Technical Institution Student

- UNI-ET-B-1002 BIM FOR ALL: A TARGETED TOE FRAMEWORK FOR CONSTRUCTION SMES' DIGITAL TRANSFORMATION**
Elma Dewiyana Binti Ismail, Noor Akmal Adillah Ismail, Shariffah Zatil Hidayah Syed Jamaludin, Nadia Kamaruddin
- UNI-AS-A-1009 SEJARAH AI: AN INTELLIGENT RAG-POWERED CHATBOT FOR HIGH SCHOOL HISTORY LEARNING**
Danial Syafiq Bin Amir Hashim, Ammar Helmey Iskandar Bin Mohd Rayhan, Muhammad Fareed Aidil Bin Rozaidi
- UNI-ET-A-1010 REVOLUTIONIZING SOLAR PV INVESTMENT STRATEGIES WITH CRITIC-TOPSIS DECISION MODELS**
Nur Iqtiyani Ilham, Nofri Yenita Dahlan, Mohamad Zhafran Hussin, Rozi Rifin, Kamaru Adzha Kadiran
- UNI-ET-A-1014 CHITOX-CQDS: CO2 CAPTURE SOLUTION**
Muhammad Amirul Bin Rasidi, Norhusna Binti Mohamad Nor, Aimi Solihah Binti Zaul Kapri, Nur Ainaa Binti Mohd Hasyim Chan, Muhammad Zahiruddin Bin Ramli
- UNI-ET-A-1015 SELF-HEALING RUBBER: ENR-RGO-AGNPS**
Muhammad Asyraf Mat Nawi, Norhusna Mohamad Nor, Norain Isa, Nur Ain Basirah Ahmad
- UNI-ET-B-1002 BIM FOR ALL: A TARGETED TOE FRAMEWORK FOR CONSTRUCTION SMES' DIGITAL TRANSFORMATION**
Elma Dewiyana Binti Ismail, Noor Akmal Adillah Ismail, Shariffah Zatil Hidayah Syed Jamaludin, Nadia Kamaruddin
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- UNI-ET-A-1010 REVOLUTIONIZING SOLAR PV INVESTMENT STRATEGIES WITH CRITIC-TOPSIS DECISION MODELS**
Nur Iqtiyani Ilham, Nofri Yenita Dahlan, Mohamad Zhafran Hussin, Rozi Rifin, Kamaru Adzha Kadiran
- UNI-ET-A-1017 GREEN CATALYTIC IN-SITU EPOXIDATION OF PALM OLEIN USING REUSABLE SOLID ACID CATALYSTS**
Muhammad Zhafri Bin Mohd Yunus, Siti Khatijah Binti Jamaludin, Siti Aminah Binti Md. Ali, Mohamad Afiq Danial Bin Ranizam
- UNI-ET-C-1020 BAJONG CUREGEL: A NATURE-DERIVED ORAL HEALTH GEL PROTOTYPE INSPIRED BY INDIGENOUS SARAWAK RICE**



Vivi Noryati Binti Ahmad, Indah Binti Mohd Amin, Nurhayati Binti Mohamad Zain

UNI-AS-C-1021 IBLEED: REVOLUTIONIZING BRAKE MAINTENANCE WITH IOT TECHNOLOGY

Mohamad Sabri Bin Mohamad Sidik, Muhammad Syakir Alias, Nurulhuda Amri

UNI-AS-A-1023 HDL-HOTSPOT: AN INTELLIGENT HYBRID DEEP LEARNING TOOL FOR HOTSPOT SEVERITY CLASSIFICATION IN SOLAR PHOTOVOLTAIC SYSTEMS

Nurul Huda Binti Ishak, Iza Sazanita Isa, Muhammad Khusairi Osman, Kamarulzahar Daud, Mohd Shawal Jadin, Faizal Mohamad Twon Tawi

UNI-ET-A-1024 LUMINWALK - A LIGHT-BASED VIRTUAL TACTILE PAVING SYSTEM FOR INCLUSIVE NAVIGATION

Khoo Boon Sheng, Nur Azman Azlee

UNI-ET-B-1025 RESILIBUMICON: A SUPPLY CHAIN RESILIENCE FRAMEWORK FOR BUMIPUTERA SME CONTRACTORS

Shariffah Zatil Hidayah Bt Syed Jamaludin, Muzani Mustapa, Zuhaili Mohamad Ramly, Elma Dewiyana Ismail

UNI-ET-A-1027 METALFUSE PRO: DEMOCRATISING METAL 3D PRINTING THROUGH A SUSTAINABLE SOLUTION

Nur Hidayah Binti Musa, Nur Hidayah Binti Musa, Shahir Yasin Bin Mohd Yusuf, Rahayu Emilia Binti Mohammed Khaidir

UNI-SC-A-1028 CRASHKIT: A LOW-COST 4 IN 1 PHYSICS LEARNING KIT

Chin Khai Xian, Bisyr Asfar Ahmad Bakhtiar, Nurul Syafiqah Yap Abdullah

UNI-ET-A-1029 HIGH-PERFORMANCE CONCRETE: NEXT-GEN HYBRID FIBERS FOR SAFER STRUCTURES

Ahmad Saifuldallah Bin Mohd Nasir, Muhammad Faiz Hasrin, Mohamad Iqbal Aidid Masmuryadi, Nor Shafizatul Naim Abdullah, Mohd Samsudin Abdul Hamid, Lyn Dee Goh

UNI-SC-B-1032 LAMAN SARI ENTERPRISE

Aisyah Farhanah Burhan, Mira Izliyana Roslin, Nur Insyirah Marzuki, Zulaikha Qyistina Zaidi, Zalifah Ahda Dzull, Flora Shumin Chang Abdullah

UNI-SC-B-1033 WARISAN WHEELS

Siti Fatima Muhamad, Afiqah Nurdiana M. Bahtiar, Muhammad Hizal Saiful, Nor Nisriinaa Naziihah Mohamad Sabri, Flora Shumin Chang Abdullah

UNI-SC-A-1036 ENHANCING TECHNICAL EDUCATION THROUGH ROBOTIC MILLING, DIGITAL SIMULATION AND ROTATIONAL JIG INNOVATION



Shukri Bin Zakaria, Wan Norshela Ezwane Binti Wan Jusoh, Mahamad Hisyam Bin Mahamad Basri, Irwan Bin Yahaya

UNI-ET-D-1037 BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

Tengku Sarah Binti Tengku Md Fauzi, Nadrahtul Huda Binti Misral, Syaza Binti Azhari, Muhammad Qadri Effendy Bin Mubarak

UNI-SC-A-1039 I.S.K.A.N.D.A.R. INTERACTIVE, SENSORY, KINESTHETIC, ADAPTIVE, NURTURING DOLL FOR AUTISM RELIEF

Aleany Binti Azlan Kamal Nazyunniyah, Siti Nur Fatinah Binti Muhamad Azudin, Farzana Husna Binti Mohd Farid, Isandra Adriana Binti Ismail, Dzahra Jazmin Binti Dzaki

UNI-ET-A-1041 OPTIMIZING ELECTRIC VEHICLE CHARGING STATION PLACEMENT: COMPARATIVE ANALYSIS

Amalina Izzati, Hasmaini Binti Mohamad, Kanendra Naidu A/L Vijyakumar, Norazliani Binti Md Sapari, Lilik Jamilatul Awaln

UNI-SC-B-1043 SUSTAINABIZ: SMART GREEN BUSINESS CERTIFICATION SYSTEM

Nursafiqah Rasyidah Binti Ride, Adriana Jane Anak Ajai, Monica Anak Jose

UNI-ET-C-1045 STICK TO NATURE: BLOCK THE SUN WITH MIDIN SUNSCREEN STICK

Daniela Eugenia Danny, Nur Royhaila Mohamad, Mohd Shahrizi Razali, Evelyn Marcia Mcqueen Anak Deda, Viviana Tresia Anak Limon

UNI-ET-C-1046 TEXTURE-MODIFIED FOOD: FROTHY KERIA

Farhan Faat, Nasrul Naim Nasrul Rahmat, Wan Adani Hazwani Wan Zuha, Elyssa Maisara Ahmad Russlin, Nakia Nordin, Sperico Michael Alden

UNI-ET-C-1047 TEXTURE-MODIFIED FOOD: FROTHY ONDE-ONDE

Farhan Faat, Muhammad Affiq Hariz Ahmad Tarmizi, Siti Norfatin Ramli, Siti Zulaikha Khairulnaim, Nur Nadia Maisarah Mohd Fisol, Ashraf Siddik Khan Abdul Rahim Siddiqe

UNI-ET-C-1048 TEXTURE-MODIFIED FOOD: SPHERE ONDE-ONDE

Farhan Faat, Nureen Fasihah Shaiful Azhar, Fatin Farisha 'Ainaa' Binti Suhaime, Muhammad Naim Zuhri, Nor Farawahidah Mohd Khamis, Ahmad Hidayat Ahmad Ridzuan

UNI-ET-B-1052 NEXT-GENERATION LIGHTWEIGHT BREEZE BLOCK: HYBRID FIBRE TECHNOLOGY FOR BUILDINGS

Izzat Bin Anuar, Sallehan Bin Ismail, Ani Maslina Binti Saleh

UNI-SC-D-1061 EQ COMPASS: AN EMOTIONAL INTELLIGENCE MOBILE APP FOR ENHANCING STUDENT-LECTURER COMMUNICATION AND ACADEMIC WELL-BEING



Raja Auni Nadrah Binti Raja Azmir, Dzulkarnain Mazlan, Muhammad Adreez Taqiyuddin Mohd Fadzween Baginda, Marhaini Zainal Kamaruddin, Noor Afiqah Noor Azmi

UNI-ET-D-1063 BIOFUSE-X: A CLEANER AND GREENER BIOFUEL FROM PALM WASTE AND PLASTIC
Hamizura Hassan, Nur Shafiqah Jamaluddin, Musa Mohamed Zahidi, Rasyid Danial Rusni

UNI-AS-A-1068 PNEUMONIA SCREENING SYSTEM KIT FOR OUTBREAK FRONTLINER AND HOSPITAL
Nurhidayatul Husna Binti Zahrin, Zuraiddi Bin Saad, Noor Diyana Binti Osman, Mateab Abdullah Abdo Ali Moqbel, Muhammad Hafiz Bin Abd Hamid, Raja Mohammad Ridzuan Bin Raja Abdullah

UNI-AS-C-1071 A GAZE-BASED VIRTUAL REALITY REHABILITATION GAME FOR STROKE PATIENTS
Muhammad Luqman Bin Mohammad Khairi, Siti Hazyanti Binti Mohd Hashim

UNI-ET-C-1072 CHITOTHYM PULP SHIELD: PROTECT, HEAL, REGENERATE.
Nurul Izzani Binti Zulkifle, Afzan Adilah Binti Ayoub, Amalina Binti Amir

UNI-ET-D-1073 GREEN MAGNETIC NANOPARTICLES FOR SUSTAINABLE DEGRADATION (MAGNETITE ENVI.MORUS.A)
Nur Shafieza Binti Azizan, Salina Binti Alias, Mohamed Syazwan Bin Osman

UNI-ET-A-1076 ROLE OF COBALT LOADING IN TUNING $\text{CaCo}_x\text{Fe}_{1-x}\text{O}_3$ CATALYTIC ACTIVITY FOR CARBAMAZEPINE DEGRADATION IN BICARBONATE ACTIVATED PEROXIDE OXIDATION
Nurul Anis Binti Mohd Narowi, Ahmad Azizi Binti Abdul Razak, Rasyidah Binti Alrozi, Nor Aida Binti Zubir

UNI-ET-A-1079 ENHANCED DEGRADATION KINETICS OF AOII DYE BY THE $\text{BAP-CaCu}_{0.5}\text{Fe}_{0.5}\text{O}_3$ SYSTEM UNDER NEUTRAL CONDITIONS
Ahmad Azizi Binti Abdul Razak, Nurul Anis Binti Mohd Norawi, Rasyidah Binti Alrozi, Nor Aida Binti Zubir

UNI-ET-D-1081 UTILIZATION OF MUDCAKE-BASED PLANTING MEDIA FOR SPINACH (*SPINACIA OLERACEA*) CULTIVATION AND LEACHING ASSESSMENT
Elisa Rani A/P Charles Johnson

UNI-ET-A-1084 TTEAURA PHYTOLIFT SERUM”BOTANICAL BRILLIANCE AGAINST AGING”



Ainul Nelisa Hani Binti Mohamad Alias, Halisa Syamimi Binti Haslim,
Naziratul Abqariyah Binti Ramli, Nurhaslina Binti Che Radzi

UNI-ET-A-1085 SMART PIXEL-PATTERN TOASTER-AN INTERACTIVE KITCHEN DEVICE FOR PERSONALIZED, VOICE-ENABLED TOAST ART

Yu Jingqiu, Burra Venkata Durga Kumar, Yu Jingqiu, Shi Li

UNI-ET-A-1086 DEVELOPMENT OF BIODEGRADABLE PAPER CRAFTS USING RECYCLED PULP AND PLANT-BASED DYES

Noorie Dania Shaliza Sahnizan, Aimannudin Bin Aliaudin, Nur Syukriah
Ab Rahman, Aishah Derahman

UNI-ET-A-1090 IOT SMART GATE

Aniq Irfan Safwan Bin Amran, Muhammad Syahmi Ajmal Bin Mohd
Hibator, Muhamad Hidayat Bin Harizan, Salwani Binti Berahim

UNI-SC-B-1091 VAULTAIR MOBILE APP

Alieya Afrina Binti Abdullah Wan Mohd Nasir, Amy Mirzana Binti
Mohd Redzuan, Aprillyn Arabella Ayala, Syazzatul Aqma, Nurafiqah Binti
Mohamad Musa

UNI-ET-A-1093 TRIBRANE-OLEOGUARD

Anis Nazira Binti Alizan, Faraziehan Binti Senusi, Nurulhuda Binti Amri

UNI-ET-A-1096 COCONUT GARNET CONCRETE FOR STRENGTHENED AND GREENER CONSTRUCTION

Muhammad Muqri Bin Mohd Razi, Wan Safizah Binti Wan Salim

UNI-ET-A-1097 GARCOSA GREEN CONCRETE

Mohamad Fakhrurrazi Bin Mohd Zaimi, Wan Safizah Binti Wan Salim

UNI-ET-A-1098 A HYBRID ELECTROCOAGULATION ADSORPTION PROCESS USING STAINLESS STEEL ELECTRODES AND MODIFIED COFFEE SLUDGE ADSORBENT FOR REACTIVE RED 120 DYE REMOVAL

Raja Aedrie Zaireel Bin Raja Zakaria, Nurulhuda Binti Amri, Raja Aedrie
Zaireel Bin Raja Zakaria

UNI-ET-A-1100 ECOHYBRID PVDF CAPSULE: A BIOHYBRID OF ANCHORED ALGAE AND OIL PALM WASTE FOR EFFICIENT WASTEWATER TREATMENT

Zuraisah Binti Dollah, Salina Binti Alias, Nor Azliza Binti Akbar

UNI-ET-A-1101 AM FLEXIMIX (AMF) SUPERIOR MODIFIED HIGH THERMAL RESISTANCE MORTAR



Muhammad Adib Danial Bin Azman, Amir Syauki Bin Zaihaliraya, Afifudin Bin Habulat, Mohd Khairul Azhar Bin Ismail

UNI-ET-B-1103 CRITICAL SUCCESS FACTOR (CSF) OF ELECTRIC BUS IN BUS TERMINAL DESIGN

Mac Arthur Dalan Sanggah, Sayed Muhammad Aiman Sayed Abul Khair, Jamaludin Bin Muhamad

UNI-ET-A-1105 INTELLIGENT LOCKER

Ahmad Danish Syazwan Zulkifli, Muhammad Haizal Yusri, Nuriy Nazihan Alam Shah, Siti Noor Fatimah Binti Kassim

UNI-ET-A-1106 SONIGRADE: SMART ACOUSTIC TOOL FOR WEATHERING GRADE CLASSIFICATION

Abdul Hadi Bin Abdul Khalid, Mohd Khairul Azhar Ismail, Afifudin Bin Habulat

UNI-ET-C-1108 DEVELOPMENT OF MULTI-EPITOPE BASED RECOMBINANT PAN CORONAVIRUS SUBUNIT VACCINE AGAINST SARS-CoV-2.

Vilassini Muniandy, Eng Sze Wei, Lohshinni Punniamoorthy, Manickam Ravichandran, Lee Su Yin

UNI-ET-D-1110 CAPAC-MAQRT

Aurellia Nasywa Ramadhiany, Enjellica Lani Dellavega, Nadine Naylatussy Basya Umbara

UNI-ET-A-1114 KEYBOX ACCESS SYSTEM

Nur Athirah Binti Mohd Firdaus, Nurasikin Bakhtiar, Syahrial Nureddin Kuswadi Bin Mohd Naim

UNI-ET-D-1116 REBEAD: REGENERABLE HYBRID ADSORBENT BEADS

Juni Mayamin Mohd Khairi, Anis Nazira Alizan, Siti Fatimah Abdul Halim, Faraziehan Senusi

UNI-SC-A-1118 LADUINO - APPLICATION OF PLC LADDER DIAGRAM IN TEACHING MICROCONTROLLER PROGRAMMING USING ARDUINO FOR TVET EDUCATION

Liew Yong Sheng, Nur Hadiah Abdullah, Muhammad Syazwan Rusli, Muhammad Danish Harvis Badaruddin, Siti Nurzulaikha Baharudin, Nur Azyani Binti Ahmad Azizulaziz

UNI-SC-B-1119 YOUNI: SMART SUPER-APP FOR CONNECTED CAMPUS LIVING

Neesha Irdina Binti Isnainy, Aina Batrisyia Binti Abdul Halim, Cecelia Anak Minggu, Ranees Atlas, Dayang Sandrawati Abang Josmani

UNI-SC-A-1120 DIGITIZING HOUSEKEEPING SUPERVISION: AN ONLINE CHECKLIST INNOVATION FOR TRAINING HOTELS



Siti Aisyah Afrina Binti Khairul Nizam, Dian Aszyanti Atirah Binti Mohd Asri, Siti Aisyah Afrina Binti Khairul Nizam, Nuraisya Natasha Binti Mohd Rozi, Nur Khairina Irwani Binti Khairi

UNI-ET-A-1123 AUTOMATED NOTIFICATION SYSTEM FOR BABY CAR SEAT SAFETY WITH IN-CAR SPEAKER GUIDANCE
Muhammad Safiuddin Iman Bin Mohd Riduan, Fazlinashatul Suhaidah Binti Zahid

UNI-AS-A-1124 EDGE-AI MULTI-SPECTRAL VEGETABLE INSPECTOR: IoT-ENABLED DEFECT DETECTION FOR AGRICULTURE QUALITY CONTROL.
Muhammad Arif Ihsan Bin Abd Karim, Iza Sazanita Isa, Rosheila Darus, Normasni Ad Fauzi, Muhammad Arif Ihsan Abd Karim

UNI-SC-C-1125 THE MYTH OF CIKAHURIPAN WELL: SCIENTIFIC-SPIRITUAL STORYTELLING FOR SUSTAINABLE TOURISM
Raihana Aisyah, Nur Lita Tri Anjani, Ni Made Yuli, Cleo Andro Pringgodarmo

UNI-ET-D-1130 ECOMOP PRO: AN UNIFIED AIR AND FLOOR SOLUTION FOR MODERN HOMES
He Bolin, Bai Wuchen

UNI-ET-A-1135 C-RIX: A NATURE'S TOUCH FOR SKIN
Normasyitah Nabihah Binti Sainon, Norasmah Binti Mohammed Manshor, Nurhaslina Binti Che Radzi

UNI-ET-C-1138 THERMAL EYE: DETECTING PADDY HEAT STRESS FOR SUSTAINABLE YIELD
Nurain Wadhihah Mohd Nazri, Khairil Afendy Hashim, Nurul Ain Mohd Zaki

UNI-AS-A-1141 CLAIRE: AN AI-POWERED DASHBOARD FOR RESPIRATORY DISEASE PREDICTION BASED ON ENVIRONMENTAL FACTORS
Siti Syakirin Sazali, Noraishah Mohammad Sham, Ahmad Zia Ul-Saufie Mohamad Japeri

UNI-SC-A-1142 GUEZZ IT: DEVELOPMENT OF ARCHITECTURAL HISTORY BOARD GAME
Muhammad Faizal Bin A. Jamadi, Nur Atiqah Binti Husaini, Hanisah Aimi Binti Hamzah, Deanne Eva Clarence, Sharifah Najwa Binti Wan Abdullah

UNI-ET-A-1143 A CNN-BASED EYEBROW MOVEMENT DETECTION SYSTEM FOR AUTONOMOUS WHEELCHAIR NAVIGATION IN TETRAPLEGIC PATIENTS
Muhammad Nabil Azim Mohamad Zakiyudin, Saiful Zaimy Yahaya



- UNI-ET-C-1145 GREEN SYNTHESIZED IONIC LIQUID FUNCTIONALIZED BEADS FOR EFFICIENT STEROIDS REMOVAL FROM WATER SAMPLES: A COST-EFFECTIVE SORPTION STRATEGY**
Raihana Bt Mohd Yusof, Nor Suhaila Mohamad Hanapi, Noor Najmi Bonnia, Aishah Zarzali Shah, Norlizayati Ramlan
- UNI-ET-A-1146 DESIGN AND FABRICATION OF SAND SIEVE MACHINE**
Muhamad Akmal Bin Othman, Sofea Qishtina Qaisarah Binti Shaiful Izam, Nur Kamarliah Binti Kamardin, Ahmad Idzwan Bin Yusuf, Ana Syahidah Binti Mohd Rodzi
- UNI-ET-C-1148 LADIBACT: LADYBIRD HAEMOLYMPH-BASED ANTIBACTERIAL PRODUCT FOR HEALTH AND AGRICULTURE INNOVATION**
Nur Aieena Balqis Binti Rosli, Nur Aina Aqilah Binti Abdul Hafiz, Nadia Nisha Binti Musa
- UNI-ET-A-1150 VIBRANT: VIBRATION-BASED INTELLIGENT BRIDGE ASSESSMENT AND NON-INTRUSIVE TESTING**
Siti Hajar Aisyah Binti Mohd Din, Sakhiyah Abdul Kudus, Mohamad Farid Misnan, Hussein Bin Muhammad
- UNI-ET-A-1153 TOPOLOGY-OPTIMISED BIODEGRADABLE BRAKE LEVER FOR YAMAHA Y15ZR MOTORCYCLE**
Muhammad Nadzmi Bin Zaidi, Muhammad Firas Naufal Bin Azri Nurfiz, Muhammad Akmal Hazim Bin Halim, Muhammad Syazwan Syafik Bin Mohd Rashidi
- UNI-ET-A-1154 ENHANCING DISTRIBUTION NETWORK PERFORMANCE WITH FIPSMAS BASED LSSPV PLACEMENT**
Mashitah Binti Mohd Hussain, Zuhaina Binti Hj Zakaria, Mohd Najib Bin Mohd Hussain
- UNI-AS-A-1163 SMARTPV-NET: AN INTELLIGENT DEEP LEARNING FRAMEWORK FOR AUTOMATED THERMAL HOTSPOT LOCALIZATION IN PHOTOVOLTAIC MODULES**
Mohd Zulhamdy Ab Hamid, Muhamad Asri Ismail, Kamarulazhar Daud, Muhammad Khusairi Osman
- UNI-SC-D-1165 SMOOTH TOUCH DOORKNOB EXTENDER FOR PEOPLE WITH HAND DISABILITIES**
Nur Anis Aishah Binti Kamaruddin, Saiful Bahari Bin Hamzah, Mohd Hafiz Bin Abd Kadir
- UNI-ET-D-1167 GYRO CUP : A BALANCING TRAY**
Raihana Nadhirah Binti Zamzuri, Aisyah Husainy Binti Ihsan Husainy, Hizanorhuda Binti Zurghiba, Khairul Rizal Bin Mohad
- UNI-ET-D-1171 ECOCARBON BRICK: A CIRCULAR SOLUTION TO CO₂ POLLUTION**



Nurul Adhlin Ilyana Binti Rosli, Nurul Aini Binti Salehuddin

- UNI-AS-C-1172 IOT BASED WATER QUALITY MONITORING SYSTEM**
Muhammad Aniq Hamizan Bin Sukri, Rohaiza Binti Baharudin, Mohammad Faizal Bin Abd Rahman
- UNI-SC-B-1173 iITAYYIB SMART LABEL KIT: SMART LABEL FOR FOOD FRESHNESS**
Aliaa Aqilah Binti Shahrim, Sumayyah Binti Mohammad Naim, Nur Faizatul Husna Binti Azman, Shahirah Said, Najwa Alyaa Abd Wakil
- UNI-AS-A-1175 REAL TIME VIDEO-BASED MICROSLEEPDETECTION USING MACHINE LEARNINGRECOGNITION**
Adam Harith In Shaifon Suhardi, Muhammad Khairul Nurzam Bin Yusof, Rosheila Binti Darus, Normasni Ad Fauzi
- UNI-ET-A-1177 A PATH TOWARD GREENER INFRASTRUCTURE: SELF-CURING MORTAR WITH POFA**
Nurul Hana Binti Mohamad Zaini, Nuril Izzeaty Ishak, Mohamad Nidzam Rahmat
- UNI-AS-B-1178 INTEGRATED IMMUNE CHAOTIC SQUIRREL EVOLUTIONARY PROGRAMMING (IICSEP) FOR OPTIMAL INTEGRATION OF BATTERY ENERGY STORAGE SYSTEMS IN TRANSMISSION NETWORKS FOR LOSS MINIMIZATION**
Nur Farahiah Binti Ibrahim, Ismail Bin Musirin, Nor Azwan Bin Mohamed Kamari
- UNI-ET-A-1182 DEVELOPMENT OF A MICROSLEEP PREVENTION SYSTEM**
Ahmad Abdul Hakim Bin Ab. Rahim, Mohammad Azzeim Bin Mat Jusoh, Sukarnur Bin Che Abdullah, Muhammad Faris Bin Mod Razali
- UNI-ET-D-1185 BI-FE SWIMMER: INNOVATIVE MICROPLASTIC PHOTO-DEGRADER**
Wan Nurul Nabilah Binti Mahathir, Ayuni Nabilah Abd Sukor, Avril Sasha Louisa Albin, Nurain Syafiqah Binti Rozuaimi, Irdiena Aisha Binti Izuddin, Ellenney Asong Jalong
- UNI-ET-D-1188 IRON-PRIME: NANO-PRIMER FOR LACTUVA SATIVA SEEDS**
Ellenney Asong Jalong, Irdiena Aisha Binti Izuddin, Nurain Syafiqah Binti Rozuaimy, Wan Nurul Nabilah Mahathir, Nur Ayuni Nabilah Abd Sukor
- UNI-ET-A-1189 Eco-Friendly Fabrication of Sn/In Electrodes for Tunable Sensor Platforms**
Nur Basiroh Mohd Rahim, Norain Isa, Vicinisvarri Inderan



- UNI-SC-B-1190 GREENPLAY: A SUSTAINABLE GAMING EXPERIENCE PLATFORM FOR ECO-CONSCIOUS PLAYERS**
Mohd Nabil Fikri Rosli, Syerifaizal Mustapha, Muhammad Harith
- UNI-ET-A-1195 KOPI O KULIM: INNOVATIVE FORMULATED DRINK FROM SCORODOCARPUS BORNEENSIS SPRAY DRIED EXTRACTS**
Siti Nursyazweena Zul-Kharnain, Najihatul Syahirah Mohamad Din, Muhammad Noor Hakimi Kaharudin, Hanis Syazwani Halim, Alia Khalidah Ismail
- UNI-ET-A-1198 SUSTAINABLE EFB-BIOSORB - FOR H₂S GAS TREATMENT**
Intan Darlina Binti Mohammad Khalid, Norhusna Mohamad Nor, Nurul Hidayah Binti Ramli, Nor Ain Natasya Binti Aziz, Siti Nalilla Qurnia Binti Mohd Jefry, Wan Muhammad Azim Bin Mohd Zaini
- UNI-ET-A-1199 STABILIZATION OF SOFT SOIL USING COFFEE HUSK ASH (CHA) FOR ENHANCING SUBGRADE STRENGTH AND PERFORMANCE**
Aini Umairah Binti Abdul Baser, Fairus Azwan Azizan, Umami Aisyah Azemi, Zanariah Abd Rahman, Noraziyah Binti Abd Aziz
- UNI-ET-C-1200 SHIFFA GOLD: FUNCTIONAL HERBAL BASED DRINK**
Amiesha Nur Shaheerah Mazlan, Siti Nursyazweena Zul-Kharnain, Muhammad Naufal Alif Husin, Mohamad Syafiq Abdul Wahab, Alia Khalidah Ismail
- UNI-SC-B-1202 EQUI: STYLING WITH EQUALITY AND EQUILIBRIUM**
Mohamad Azlan Shafiq Bin Kassim, Cindy Chung Jia Yee, Nur Adelina Natasha Mohd Shahrin, Zairin Najwa Zulkarnain, Nur Elena Balqis Syamsul Iskamil
- UNI-ET-A-1211 SMART CONTROLLER SYSTEM FOR BLACK SOLDIER FLY FARMING CONTAINER**
Adam Rusyaidi Roslan, Adam Hazriq Azrul Yusdi, Muhammad Mukhriz Mohd Aseri, Aminuddin Hamid, Mohamad Sufian So'aib
- UNI-ET-A-1213 EVALUATE TEA WASTE AS ADDITIVE IN SOFT SOIL FOR ENHANCING MECHANICAL CHARACTERISTICS**
Umami Aisyah Binti Azemi, Fairus Azwan Azizan, Aini Umairah Binti Abdul Baser, Zanariah Abd Rahman, Syahirah Binti Mansor
- UNI-SC-C-1218 DESTINOVATE: LEVERAGING PERCEIVED VALUE AND INNOVATION PRACTICES TO ENHANCE TOURIST DESTINATION IMAGE IN MALAYSIA'S FOOD TOURISM**
Mohd Syaifuddin Mohd Alias, Hashim Fadzil Ariffin, Zaharah Mohamed Rani
- UNI-ET-D-1233 A DUAL-REDOX CaMnXCu_{1-X}O₃ CATALYST FOR GREEN AND SUSTAINABLE WASTEWATER TREATMENT SOLUTIONS**



Riza Lydia Liyana Binti Rizalmen, Nor Aida Binti Zubir, Rasyidah Alrozi

UNI-AS-C-1239 SMART FARM MONITORING SYSTEM WITH 3D REAL-TIME VISUALIZATION

Liuzhongze

UNI-AS-A-1240 FRHYTHOM - A MODULAR DESIGN FOR OPEN-STRUCTURED FOOTWEAR PRODUCT

Liu Jintao, Li Boyue, Burra Venkata Durga Kumar

UNI-ET-A-1250 ECONANO-EOR: GREEN IRON OXIDE NANOFLUIDS FROM CITRUS WASTE FOR SUSTAINABLE ENHANCED OIL RECOVERY

Muhammad Syahmi Bin Mawardi, Siti Shahjunaidah Binti Salam, Mohammad Alif Aiman Bin Shamsu Kamal Bahrin, Nur Anissa Azahra Binti Azizi, Siti Nurliyana Binti Che Mohamed Hussein, Azlinda Bt Azizi

UNI-AS-C-1252 IOT-BASED SMART CANE FOR ELDERLY CARE: INTEGRATED HEALTH MONITORING & REAL-TIME TRACKING SYSTEM

Cao Huayuan, Huang Yuting, Guo Bingjie

UNI-ET-C-1258 ARAUCAT: ADVANCING RESEARCH ON ACTIVE CATALYST FOR GREEN HYDROGEN

Rahil Binti Azhar, Mohd Azlan Bin Mohd Ishak, Wan Izhan Nawawi Bin Wan Ismail, Nur Syamimi Binti Mohamad Abdul Adzis, Nureel Imanina Binti Abdul Ghani

UNI-ET-D-1263 INTEGRATED PEC SYSTEM FOR SIMULTANEOUS ORGANIC AND INORGANIC POLLUTANT REMOVAL

Nur Syamimi Binti Mohamad Abdul Adzis, Nureel Imanina Abdul Ghani, Noorsyam Yusof, Rahil Azhar, Nor Azira Irma Muhammad, Mohd Azlan Mohd Ishak

UNI-SC-A-1269 FUNFIN BOARD GAME

Amysha Wardina Binti Zulsufanan, Aleeya Maisarah Shamsudin, Aina Farzana Hossin, Dayang Khairunnisa Adilah Abang Kiprawi, Agnes Kanyan, Siti Farah Binti Lajim

UNI-ET-A-1277 OMNIPEN

Liu Zhenyu, Burra Venkata Durga Kumar

UNI-ET-A-1286 ADAPTIVE SLIDING MODE FEEDBACK CONTROL ALGORITHM FOR A NONLINEAR KNEE EXTENSION MODEL

Saharul Arof, Muhammad Azmi Mustafa Bin Abdul Halim, Muhamad Khuzzairie Bin Safie, Emilia Noorsal, Saiful Zaimy

UNI-ET-A-1287 A LOW COST AND USER FRIENDLY GRAPHICAL USER INTERFACE FOR PROGRAMMABLE AND FLEXIBLE FES



Muhammad Azmi Mustafa Bin Abdul Halim, Saharul Arof, Muhamad Khuzzairie Bin Safie, Emilia Noorsal, Saiful Zaimy

UNI-ET-D-1289 ENERGY RESILIENCE ASSESSMENT SYSTEM [ERAS] WITH RESILIENCE INDEX VISUALIZATION
Muhamad Amri Bin Azri, Wan Faezah Binti Abbas, Muhammad Azfar Shamil Bin Abd Aziz

UNI-AS-B-1290 SonoCATSim: A Hybrid Modeling System for Predicting the Kinetic Behavior of Sonocatalytic Processes
Muhammad Hazim Bin Amran, Muhammad Hazim Bin Amran, Siti Nurhafeefa Binti Maydir, Nur Fadzeelah Binti Abu Kassim, Fakhrony Sholahudin Rohman

UNI-AS-A-1291 DOCTOR PLANTS
Muhamad Akmal Harith Bin Mohd Bahktiar, Muhamad Akmal Harith Bin Mohd Bahktiar, Siti Afiqah Binti Musa, Nurul Hanani Binti Abd Hadi, Harnani Hassan

UNI-SC-B-1292 OttOMA 2.0 BY LOGIC FURNITURE: A TRANSFORMABLE SOFABED INTEGRATING CULTURAL DESIGN, SPACE EFFICIENCY, AND SUSTAINABLE INNOVATION FOR HOSPITALITY STARTUPS AND SMEs
Nur Azah Farhana Bt Mohamed Fadzil, Mohd Raziff Jamaluddin, Ruwaidy Bin Mat Rasul

UNI-ET-A-1294 ECO PAVE WITH EGGBOND AND POLYSTRIP IN A THREE LAYER SYSTEM
Nurhafiza Binti Ahmad Tayudin, Nur Ain Nadhilah Nasaruddin, Rozaini Binti Ramli, Siti Nur Hasanah Hassan

UNI-SC-B-1295 ORDERUP - MOBILE ORDERING AND MANAGEMENT SYSTEM FOR CAMPUS CAFETERIAS
Mohamad Azami Bin Hasbi, Sean Lee Jia Rhong, Yohanes Agustin Allie, Alia Munirah Binti Sahman, Nurashikin Binti Nazer Mohamed, Khairunnisa Binti Ibrahim

UNI-SC-A-1301 RFID-IoT INTEGRATION: ENHANCING CLASS ATTENDANCE MANAGEMENT FOR UNIVERSITY STUDENTS
Muhammad Aiman Najikhin Bin Saiful Anuar, Nor Diyana Binti Md Sin, Norlina Mohd Zain

UNI-ET-A-1304 SUNSHIELD ZNO "SUSTAINABLE UV PROTECTION POWERED BY SCIENCE"
Nurainul Kamalia Iskandar Hussein, Nur Arfa Zulkifli, Rabiatal Adawiyah Abdol Aziz, Siti Fatma Abd Karim

UNI-SC-A-1308 MOBSENIINSPIRASI GENIUS: REVOLUTIONIZING VISUAL ARTS EDUCATION
Roslita Binti Ramli, Norzuraina Binti Mohd Nor, Zuhaili Binti Mohd Arshad, Nadzimah Binti Idris, Norulwidad Binti Zakaria



- UNI-ET-D-1309 PROPERTIES OF MORTAR WITH THE INTEGRAL TREATMENT USING OLIVE AND PALM COOKING OIL FATTY ACID**
Nurikmal Farahin Mohd Zainuddin, Nur Ainul Hayah Mohd Ghazali, Hazrina Ahmad, Nurjuhanah Juhari
- UNI-ET-C-1311 SOLAR STICKY INSECT TRAP**
Nur Izzatie Ismail, Nurul Amirah Rohyzat, Ayuni Marliana Aswadi, Marlia Musa, Normardhiyah Roslan
- UNI-ET-A-1314 BIODEGRADABLE ALGINATE/ZIRCONIA FILM AEROGEL AS GREEN THERMAL INSULATOR**
Nur Hazwani Dalili Binti Mohamad, Ana Najwa Binti Mustapa, Nur Hazwani Dalili Binti Mohamad, Anis Nur Shasha Binti Abd Halim
- UNI-SC-A-1317 ProbViz: INTERACTIVE STATISTICS & PROBABILITY VISUALIZER**
Muhammad Fareez Bin Mohd Fauzi, Suriyati Binti Ujang
- UNI-ET-A-1318 PORTABLE SOLAR-POWERED WASTEWATER TREATMENT SYSTEM WITH UPCYCLED CIGARETTE WASTE-DERIVED ADSORBENT AND MEMBRANE**
Cheong Yong Xuan, Fan Jia Hui, Goh Jing Wen, Muhammad Mirza Bin Mohamad Azmi, Saiful Azhar Saad, Khairuddin Md Isa
- UNI-AS-B-1320 EMPOWERING SUSTAINABLE FUTURES WITH BIG DATA: A PYTHON WEB-BASED PLATFORM FOR RANKING COMPLEX ALTERNATIVES USING MOORA**
Muhammad Fadzly Haqimi Bin Eliyas, Zahari Bin Md. Rodzi, Mohd. Syahril Bin Ibrahim, Wan Syaidatul Izzati Binti Wan Abdul Rahman, Mohammad Shafiq Bin Mohammad Kamari
- UNI-ET-A-1321 REUSABLE AND ROBUST: IMMOBILIZED XYLANASE VIA CROSS-LINKING ALGINATE BEADS FOR BIOPRODUCT APPLICATIONS**
Nurul Khairani Aziz, Siti Sabrina Mohd Sukri
- UNI-ET-D-1323 WASTE TO WOW: RICE HUSK & CHITOSAN FOR GREENER WATER TREATMENT**
Miss. ERIENA NUR AISYAH BINTI ELMI (Leader)
Eriena Nur Aisyah Binti Elmi, Nor Fariza Ismail
- UNI-ET-A-1324 ECOFLEXSENSOR**
Subashsini A/P Santhiran, Lee Hooi Ling, Vicinisvarri Inderan
- UNI-SC-A-1326 ELECSAR: NEXT-GEN LEARNING REVOLUTION**
Zuhaili Binti Mohd Arshad, Mohamed Nor Azhari Bin Azman, Nadzimah Binti Idris, Norulwidad Binti Zakaria, Roslita Binti Ramli



UNI-AS-B-1330 CAMPUS WHEELS: SMART RIDE-SHARING MOBILE PLATFORM FOR UiTM COMMUNITY

Mazidah Muhsin, Siti Zulaiha Ahmad, Ernieza Suhana Mokhtar

UNI-SC-A-1331 EDUDECISION: A PYTHON-STREAMLIT WEB APPLICATION FOR BIG DATA-DRIVEN EDUCATIONAL DECISION-MAKING USING WASPAS

Puteri Afiqah Binti Yusri, Zahari Bin Md Rodzi, Wan Normila Binti Mohamad, Muhammad Mukhlis Bin Kamarul Zaman, Nursyahirah Syafiqah Binti Arzanee, Fiqhley Ilmey A'mal Bin Fadhaililamal

UNI-ET-A-1339 CE-CAT: FROM WASTE TO WEALTH SUSTAINABLE CATALYSTS FOR A CIRCULAR ECONOMY

Nur Alwani Binti Ali Bashah, Wan Zuraida Binti Wan Kamis, Syarifah Athasha Binti Shaib Aliwi

UNI-AS-A-1340 MYHEART: CARDIAC CARE PREDICTIVE ANALYTICS

Daniyal Rosli, Zanariah Idrus, Ahmad Afif Ahmarofi

UNI-SC-D-1350 AUTISMABILITY GATEWAY: SKILL-DRIVEN JOB MATCHING FOR INCLUSIVE EMPLOYMENT

Mohamad Wafiq Bin Misman, Nor Shahida Binti Mohamad Yusop

UNI-SC-A-1352 KVS-DEnt: EMPOWERING DIGITAL ENTREPRENEURSHIP IN SPECIAL NEEDS VOCATIONAL EDUCATION

Nadzimah Binti Idris, Abdul Rahim Bin Razalli, Mohd Ridhuan Bin Mohd Jamil, Zuhaili Binti Mohd Arshad, Norulwidad Binti Zakaria



Category C (PRO): Academician, Industry and Professional

- PRO-ET-D-1001 BEENUT BIOCOAT: SUSTAINABLE NATURAL COATING FOR DEGRADABLE MYCELIUM COMPOSITE PACKAGING**
Farrah Noor Binti Ahmad, Normariah Binti Che Maideen, Boey Tze Zhou
- PRO-SC-D-1030 DAPUR HEP(STUDENTS' KITCHEN@UiTM CAWANGAN PULAU PINANG)**
Dewi Anis Binti Othman, Farzanah Hanum Binti Abdul Latif, Sarina Binti Samsudin, Zuraini Binti Abd Rahman
- PRO-SC-A-1034 EMPOWERING STUDENT AGENCY THROUGH PERSUASIVE SPEECH AND PROBLEM-BASED LEARNING TO PROMOTE AWARENESS OF UNESCO'S 17 SUSTAINABLE DEVELOPMENT GOALS**
Alicia Philip
- PRO-ET-C-1035 INTERNET OF THINGS (IOT) ON SOIL MOISTURE MONITORING IN SANDY SOILS**
Sunny Goh Eng Giap, Roslaili Binti Abdul Aziz, Mohd Nazry Bin Salleh, Samera Samsuddin Sah, Hanhan Maulana
- PRO-SC-A-1040 I-NURA APPSISLAMIC NURSING WITH UNDERSTANDING, RESPONSIBILITY & AMANAH**
'Imaaduddin Bin Abdul Halim, Emie Sylviana Binti Mohd Zahid, Habibah Binti Ayob, Nurfahiratul Azlina Binti Ahmad, Najwa Alyaa Binti Abd Wakil, Siti Munirah Binti Abdul Wahab
- PRO-SC-A-1044 SMARTOUTCOME: AN AI-POWERED WEB PLATFORM FOR OUTCOME-BASED LEARNING IN COMPUTER ARCHITECTURE**
Noor Sarena Binti Mohd Zahid, Aziana Binti Che Aziz
- PRO-ET-D-1049 INTEGRATION OF GREEN TECHNOLOGY IN SUSTAINABLE BATIK MANUFACTURING**
Akmal Bin Uzir, Mohd Pahmi Bin Saiman, Khairuddin Bin Ishak, Md Najip Bin Talibin, Norhafizah Akmal Binti Sukri, Norazlina Binti Mat Nayan
- PRO-SC-A-1050 VERIPREP: A CODE-VERIFIED LEARNING TOOL FOR ENFORCING STUDENT PREPARATION TIME**
Mahamad Hisyam Bin Mahamad Basri, Noor Iswadi Bin Ismail, Rosniza Binti Rabilah, Muhammad Arif Bin Ab Hamid Pahmi
- PRO-SC-A-1056 SKETCHITECH**
Haryati Mohd Isa, Jazmin Zulkifli, Haris Hambali, Nordin Misnat, Nurrajwani Abdul Halim, Haryati Mohd Isa



- PRO-AS-C-1060** **CAMPUS ACTIVITY MANAGEMENT SYSTEM CAMS DIGITIZING THE PROCESS OF STAFF PROGRAMME AND TRAINING MANAGEMENT**
Nur Diyanah Binti Da Halib, Azalan Bin Mohd Radzi, Nor Husaina Md Hussain, Mohd Asyraf Bin Min Had, Muhamad Syabani Hassan, Nurfilianis Fadnan
- PRO-SC-A-1064** **Interactive Business Law Personal Tutor**
Rohani Binti M.M Yusoff, Nurul Hidayah Fariza Yusri
- PRO-SC-E-1070** **SOCO Simplex Legal Bot Care Pocket: Dynamic Roadmap Engine for Assessing and Visualizing Duty of Care**
Suria Fadhillah Md Pauzi, Ida Rosnita Ismail, Mohamad Sahizam Musa, Shamsinar Rahman, Mohd Azim Zainal
- PRO-SC-E-1075** **DEFERRED PROSECUTION AGREEMENT (DPA) SELF-REPORTING**
Rizauddin Saian, Zeti Zuryani Mohd Zakuan
- PRO-SC-A-1077** **IMAN - VERBAL TREASURE HUNT: INTERACTIVE LANGUAGE ADVENTURE FOR AUTISTIC CHILDREN**
Razanawati Nordin, Marzlin Marzuki, Mohd Hamidi Adha Mohd Amin, Rofiza Aboo Bakar
- PRO-SC-B-1080** **IMPLEMENTING THE CARBON CAPTURE AND VALORISATION (CCV) FRAMEWORK IN MALAYSIA'S PALM OIL SECTOR: A ROADMAP TOWARD ZERO WASTE AND LOW CARBON EMISSIONS**
Nivakan Sritharan, Heng Kiat Sing, Lisa Ngui Lee Hua
- PRO-SC-B-1082** **Circular Economy of Black Soldier Fly**
Mohamad Sufian So'aib, Aminuddin Hamid, Mohamed Syazwan Osman, Mohd Azahar Mohd Ariff, Muhammad Zahiruddin Ramli
- PRO-SC-A-1088** **INNOVATIVE MOBILE LIBRARY SYSTEM TO STRENGTHEN SCHOOL RESOURCE CENTRE MANAGEMENT**
Madzani @ Saidie Nusa, Jamilah Binti Othman, Melati Binti Jilon, Cheong Shaw Mei, Bernadette John, Ainol Hidayah Abdul Rauof
- PRO-SC-A-1092** **BIZCOMIC: VISUAL LEARNING FRAMEWORK FOR BUSINESS PLAN MASTERY**
Siti Nur Fathini Binti Muhsain, Nor Fadzilah Zainal, Nor Hidayah Harun
- PRO-ET-A-1094** **ECO SMART DRAIN - INNOVATION FOR A SAFER TOMORROW**
Nur Baiduri Binti Mazlan, Darul Farah Binti Yaacob, Azieshazwanie Binti Azizan, Rohaya Binti Mahayadin



- PRO-AS-B-1099 RIVER QUALITY INDEX (RQI) SYSTEM BASED ON AWARENESS OF RIVER POLLUTION**
Puspa Liza Binti Ghazali, Siti Nadhirah Binti Mohamad Fauzi, Aze Fauziah Suib, Nik Hazimi Mohammed Foziah, Farah Amalina Md Nawi, Juliana Arifin
- PRO-AS-C-1102 E-LEGEN 2.0**
Khalilah Abdul Khalil, Zuraeda Ibrahim, Khairul Nizam Tahar, Asiyah Kassim, Azizul Arif Ahmad Zaki, Mohd Azrul Zakaria
- PRO-ET-A-1111 SMART ANALOG RICE DIE USING BIODEGRADABLE PLA MATERIAL**
Rosniza Binti Rabilah, Mahamad Hisyam Bin Mahamad Basri, Noor Iswadi Bin Ismail, Muhammad Arif Bin Ab Hamid Pahmi
- PRO-ET-A-1112 MULTI-FACTOR VIBRATION TEST RIG FOR AUTOMOTIVE CABLE DURABILITY TESTING**
Azmi Mohamad Yusof, Rizal Mohamed Noor, Ahmad Faiz Zubair, Mohamad Irwan Yahaya
- PRO-ET-A-1115 CAESALIPS: A NATURAL LIP BALM INNOVATION WITH CAESALPINIA SAPPAN L.**
Ummi Kalthum Ibrahim, Nurhafiza Hassan, Siti Noor Suzila Maqsood-Ul-Haque, Nurul Asyikin Md Zaki, Dr. Habsah Alwi
- PRO-ET-A-1117 BIRD BLINKER -BIRD DETECTION AND DETERRENT SYSTEM**
Hafizah Binti Talib, Hashim Bin Ahmad, Norhayati Binti Abu Bakar, Rohazaidi Bin Mohd Ali Piah, Maizatulakma Binti Kamaruzaman, Nor Rumaizah Binti Azmi
- PRO-SC-E-1126 MANAGEMENT OF FOOD ORDERLY SYSTEM**
Abdul Mutalib Bin Jamil, Hanafi bin Hamdani, Shahrulnizam bin Akhsan, Nur Ilimina Batrisyia binti Bahrim
- PRO-SC-D-1139 S.P.A.C.E.@UITM PAHANG**
Wan Noradila Binti Wan Mohd Zain, Rosfarhani Binti Daud, Iwan Bin Mohd Yusazli
- PRO-ET-D-1140 B_CLEAN (SOLAR AUTOMATED LITTER PICKER)**
Nazirah Binti Mat Zain, Mohd Hamdan Bin Mohd Shah, Nazirah Binti Mat Zain, Raziah Binti Ahmad, Shahaziq Irsyad Bin Shahrin
- PRO-SC-B-1149 THE CRITICAL SUCCESS FACTORS FOR SUSTAINABLE AND PRODUCTIVE WAQF DEVELOPMENT PROJECTS**
Amal Hayati Ishak, Sharifah Fadylawaty Syed Abdullah, Aishah Mohd Nor, Noor Aznaim Abd Latib, Siti Nor Amira Mohamad
- PRO-ET-C-1155 PHARMMEDLINE: AI-BASED VISUAL RECOGNITION PLATFORM FOR SAFER SUPPLEMENT USE**



Iman Nabilah Abd Rahim, Norhasmira Binti Mohammad, Yasmin Binti Mohd Zainal Abidin Shukri, Johanes Dedi Kanchau

PRO-SC-A-1156 CHECKLIST WRITING PROBLEM STATEMENT IN THESIS (CHECKLIST-PS)

Nur Ashikin Binti Marzuki, Mohd Khairul Nizam Bin Zainan Nazri, Mardiana Binti Mat Ishak, Nur Hidayah Binti Ahmad, Hasiah Binti Mat Salleh, Atiqah Binti Nawawi

PRO-ET-A-1157 INNOVATIVE LOUDSPEAKER-DRIVEN SYNTHETIC JET DEVICE FOR ENHANCED THERMAL MANAGEMENT

Muhammad Arif Ab Hamid Pahmi, Azmi Bin Husin, Mahamad Hisyam Bin Mahamad Basri, Noor Iswadi Bin Ismail, Sharzali Bin Che Mat

PRO-SC-A-1168 ADABQUEST 5.0: YOUR JOURNEY TO JANNAH STARTS WITH YOUR PARENTS

Sharifah Fadylawaty Syed Abdullah, Amal Hayati Ishak, Fatin Nabilah Abdul Wahid

PRO-ET-A-1169 MACROFLUIDIC AIRFLOW SENSOR

Sukarnur Che Abdullah, Mohamad Dzulhelmy Amari, Mohammad Azzeim Mat Jusoh, Nabil Najwan Salehudin Alayob, Amerul Aiezzad Azhari

PRO-SC-A-1170 GAME-BASED LEARNING WITH SKUNK PROBABILITY: AN INNOVATIVE TEACHING TOOL FOR PROBABILITY CONCEPTS

Nor Rashidah Binti Paujah @ Ismail, Fadzilah Abdol Razak

PRO-SC-E-1174 FACT FINDING BOOKLET VIII: LENS OF RIGHTS

Suria Fadhilah Md Pauzi, Azniza Ahmad Zaini, Musramaini Mustapha, Shamsinar Rahman, Mohd Firdaus Habib Mohd

PRO-ET-A-1179 ECOBOARD: SUSTAINABLE COMPOSITE BOARDS MADE FROM LOCAL BIOMASS WASTE

Wetri Febrina, Sirlyana, Melliana, Yusrizal, Surya Indrawan

PRO-SC-A-1192 INTERACTIVE VIDEO FEEDBACK WITH SOCRATIC QUESTIONING TO ENHANCE ESL NARRATIVE WRITING

Arathai Din Eak, Nagaletchimee Annamalai

PRO-ET-D-1194 MORINGA AS GREEN COAGULANT FOR POME TREATMENT

Azinoor Azida Binti Abu Bakar, Lee Siong Wee, Muhammad Khairudin Bin Khalil, Nurfarah Aina Norizlanin

PRO-ET-D-1206 BIODEGRADABLE ECO-COMPOSITE PACKAGING MATERIAL

Marwah Binti Rayung, Nazhirah Muhammad Nasri, Siti Noorbaini Sarmin, Noorshashillawati Azura Mohammad



- PRO-SC-A-1212 SMARTFLASH TAJWEED: BRIDGING CLASSICAL LEARNING WITH MODERN TOOLS AND APPROACH**
Zaiton Binti Din, Roshaimizam Suhaimi, Najwa Alyaa Abd Wakil, Nor Syahida Hashim, Rozaini Othman, Tasnim Abdul Rahman
- PRO-ET-D-1227 ECO-CAPTURE: ADVANCING MgO-MODIFIED BIO-SORBENTS FOR SUSTAINABLE CO₂ REMOVAL**
Muhammad Zahiruddin Bin Ramli, Mira Fardina Binti Sadimin, Nur Fateen Nabilah Binti Azizan
- PRO-SC-A-1229 MAGNIWRITE: AN AI-POWERED FRAMEWORK TO AMPLIFY ARGUMENTATIVE WRITING SKILLS WITH A GLOBAL SDG LENS**
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6. Social Impact Award
7. Smart Technology Integration Award
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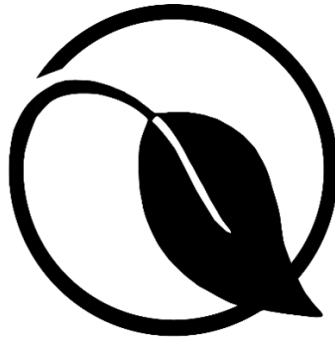
Tentative of Closing Ceremony

Time	Activity
9.00 am	Arrival & registration of participants
9.30 am	Arrival of UiTM Penang Executive members, strategic partner and sponsors
9.45 am	Arrival of Deputy Chief Minister I of Pulau Pinang
9.50 am	Visit to exhibition booth
10.15 am	Arrival of VIPs • National anthem • State anthem • Prayer recital • Welcoming speech by host
10.30 am	• Speech by the Director of PIID 2025 • Speech by the Rector of UiTM Pulau Pinang • Officiating speech by the Deputy Chief Minister I of Pulau Pinang
11:00 am	PIID 2025 Montage and Gimmicks
11.15 am	Awards ceremony
12.15 pm	PIID2027 handover ceremony
12.30 pm	Photo session
12:45 pm	Lunch



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