



**FINAL YEAR PROJECT
& POSTGRADUATE
RESEARCH & INNOVATION
POSTER COMPETITION**

RIPC 2025

30 JUNE 2025

**PROGRAMME
BOOK**

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DIRECTOR'S MESSAGE

Greetings,

Thank you to all participants for being part of the Final Year Project & Postgraduate: Research & Innovation Poster Competition (RIPC) 2025. This competition has served as a valuable platform for you to share your research and ideas through a focused and impactful poster presentation.

We received an impressive total of 184 entries from Malaysia, Brunei, and Indonesia. Each submission was carefully assessed by 67 experienced judges, with every project evaluated by at least two experts. A special note of appreciation goes to all our dedicated juries. Your time, expertise, and thoughtful evaluations were essential to the success of this event. We are truly grateful for your contribution.

To all the award recipients, congratulations on your achievement! And to those who did not receive a Diamond or Gold award this time, please don't be disheartened. Every competition is a chance to learn, and every step forward builds your confidence and skills. Stay motivated and keep striving. Your dedication will take you far.

We look forward to welcoming you again in the next edition of RIPC.

Warm regards,
Nadzri Salleh



LIST OF JURIES

LIST OF JURIES

**Assoc. Prof. Dr. Nur Hanani Zainal
Abedin**

Universiti Putra Malaysia

**Assoc. Prof. Dr. Tengku Shahrul
Anuar Bin Tengku Ahmad Basri**

Universiti Teknologi MARA

**Assoc. Prof. Ts. Dr. Abdul Rahman
Saili**

Universiti Teknologi MARA

**ChM Dr. Wan Zuraida Wan Mohd
Zain**

Universiti Teknologi MARA

ChM. Dr. Mazlin Binti Mohideen

Universiti Kuala Lumpur Royal
College of Medicine Perak

Dr. Azad Iqram Bin Nadmilail

Kementerian Pendidikan Malaysia

Dr. Azmi Bin Ahmad

Politeknik Tun Syed Nasir Syed
Ismail

Dr. Haida Umiera Hashim

Universiti Teknologi MARA

Dr. Lewis Liew Teo Piaw

Politeknik Kuching Sarawak

Dr. Mohd Rahimi A Rahman

Kementerian Pendidikan Malaysia

Dr. Nazirah Ab Wahab

Universiti Teknologi MARA

Dr. Noor Liyana Yusof

Universiti Putra Malaysia

Dr. Nor Fauziana Binti Ibrahim

Multimedia University

Dr. Norfarah Nadia Ismail

Universiti Teknologi MARA

Dr. Nuraini Mohd Noor

Universiti Teknologi MARA

LIST OF JURIES

Dr. Nurulnatisya Ahmad
Universiti Teknologi MARA

Dr. Nurul Shazini Ramli
Universiti Putra Malaysia

**Dr. Putri Anis Syahira Binti
Mohamad Jamil**
Universiti Kebangsaan Malaysia

Dr. Rabihah Md. Sum
Universiti Sains Islam Malaysia

Dr. Siti Nur Anisah Aani
Universiti Teknologi MARA

Dr. Wong Yau Hsiung
Taylor's University

Ir. Dr. Nik Zainab Nik Azizan
Universiti Malaysia Perlis

Ir. Ts. Zuhayr Bin Md. Ghazaly
Universiti Malaysia Perlis

**Ir. Ts. Mohd Zikril Hakim Bin
Ismail**

Institut Kemahiran MARA
Seberang Perai Utara

Ir. Ts. Zulkarnain Bin Abdul Latiff
University Kuala Lumpur

**R.E.T, AAET Mohd Zulfazli Bin
Raub Khan**

Politeknik Banting Selangor

Sr. Gs. Norina Binti Omar
Politeknik Ungku Omar

**Sr. Gs. Ts. Dr. Izrahayu Binti Che
Hashim**

Universiti Teknologi MARA

Sr. Norazlin Mat Salleh
Universiti Teknologi MARA

**Ts. Dr. Ahmad Fateh Bin
Mohamad Nor**
Universiti Tun Hussein Onn
Malaysia

LIST OF JURIES

Ts. Dr. Ahmad Nurfaidhi Rizalman

Universiti Malaysia Sabah

Ts. Dr. Nurfadzillah Ishak

Universiti Malaysia Perlis

**Ts. Dr. Ain Nihla Binti
Kamarudzaman**

Universiti Malaysia Perlis

Ts. Inv. Dr. Mohd Shahir Bin Yahya

Universiti Tun Hussein Onn
Malaysia

**Ts. Dr. Alia Amira Binti Abd
Rahman**

Universiti Kuala Lumpur

Ts. Izwanizam Bin Yahaya

Kolej Komuniti Segamat 2

Ts. Dr. Hamizan Yon

Universiti Teknologi MARA

Ts. Kalaiselvee A/P Rethinam

Methodist College Kuala Lumpur

**Ts. Dr. Mohammad Hazrul Bin Md
Jori**

Taiping Vocational College

**Ts. Karthigeyen A/L
Ramachandran**

Politeknik Ungku Omar

**Ts. Dr. Mohd Amran Bin
Hasbullah**

Universiti Teknologi MARA

Ts. Mazlina Binti Md Mustaffa

Politeknik Ungku Omar

**Ts. Dr. Nur Qursyna Binti Boll
Kassim**

Universiti Teknologi MARA

Ts. Mohamad Asrofi Bin Muslim

Centre for Instructor and
Advanced Skill Training

LIST OF JURIES

**Ts. Mohamad Luthfi Bin Ahmad
Jeni**

Universiti Tun Hussein Onn
Malaysia

Ts. Nursahizalina Binti Mohd Saat

Politeknik Tun Syed Nasir Syed
Ismail

Ts. Roslina Binti Manaf

Kolej Vokasional Tanah Merah

Ts. Siti Fazariah Hashim

Multimedia University

Ts. Suresh Thanakodi

Universiti Pertahanan Nasional
Malaysia

Atikah Binti Razi

Universiti Teknikal Malaysia
Melaka

Doris Asmani Binti Mat Yusof

Universiti Teknologi MARA

Ezzat Binti Mohamad Azman

Universiti Putra Malaysia

Fatin Binti Khairuddin

Universiti Teknologi MARA

Ismaniza Binti Ismail

Politeknik Ungku Omar

Marziah Binti Mohamad

Kolej Matrikulasi Melaka

Mohd Faizal Bin Mohamed Nor

Universiti Tun Hussein Onn
Malaysia

Mohd Hanafie Bin Yasin

Universiti Teknologi MARA

Muhamad Azim Bin Kamal

Kolej Vokasional (Pertanian)
Chenor

LIST OF JURIES

**Muhammad Nuruddin Bin Mohd
Nor**

Universiti Teknologi MARA

Nadzrul Iswandie Bin Che Nazir

Kedah Matriculation College

Noor Fatimah Bt Mazlam

Southern University College

Nor Mayuze Binti Mohamad

Universiti Teknologi MARA

Norhisyam Bin Jenal

Universiti Teknologi MARA

Nur Wajihah Mohd Nawi

Universiti Teknologi MARA

Nurlinda Binti Abdullah

Politeknik Metro Johor Bahru

Shahrul Nizam Bin Mohammad

Universiti Teknologi MARA

Siti Shahidah Binti Sharipudin

Universiti Teknologi MARA



LIST OF WINNERS

Congratulations!

Congratulations!

DIAMOND AWARD

Category A: PhD

Ref. No. & Project Title:

770: Model of Sustainable Workspace for Architecture Firms
in Malaysia

Institution:

UCSI University

Members:

Stephanie Choo Mei Teng (L) & Asst. Prof. Ts. Sr. Dr. Nadzirah
Hj. Zainordin (A)

Category B: Master

Ref. No. & Project Title:

848: Unveiling Anti-SARS-CoV-2 Activity from *Christia
vespertilionis* Leaves: An In Vivo Evaluation

Institution:

Universiti Kuala Lumpur Royal College of Medicine Perak

Members:

Nur Ainina Hani Ghazali (L), Dr. Tavamani Balan (A), Assoc.
Prof. Dr. Syahida Ahmad & Ts. Dr. Vikneswari Perumal

Congratulations!

DIAMOND AWARD

Category C: Degree

Ref. No. & Project Title:

835: Formulation and Evaluation of Sodium Alginate Beads Loaded with Thiamine Hydrochloride for Immediate Release

Institution:

University Kuala Lumpur Royal College of Medicine

Members:

A'watief Ahmad Majdi (L), Dr. Tavamani Balan, Puvana Devi Selvarajoo & ChM Dr. Sharon Fatinathan (A)

Category D: Diploma

Ref. No. & Project Title:

808: DrillSafeGel: Eco-Friendly, Kick-Preventive Drilling Mud from Agricultural Waste to Ensure Safer Well Operations

Institution:

Polytechnic of Energy and Mineral Akamigas

Members:

Muhammad Franchy Luthfan Rahmadina (L), Willi Gredo Manalu, Brilyan Rizki Ramadhan, Rakha Ibrahim Fathisaputra & Gerry Sasanti Nirmala, S.T., M.T. (A)

Congratulations!

LIST OF WINNERS

PhD

A1: Science, Technology, Engineering & Mathematics

Ref. No.	Title	Institution	Award
819	Adoption of CSF eTendering Implementation Model in Malaysian Construction Industry	UCSI University	GOLD
913	Dielectric Barrier Discharge Non-Thermal Plasma Utilizing ZIF-8 in Methane Dry Reforming	Universiti Teknologi PETRONAS	GOLD
914	Towards Efficient CO ₂ /CH ₄ and CO ₂ /N ₂ Separation via Dual-Layer Hollow Fiber Membrane	Universiti Teknologi PETRONAS	GOLD
912	Study on the Effect of ZrO ₂ Loading on the Formation of CZZA/ZrO ₂ -Modified HZSM-5 Bifunctional Catalysts as Potential Catalysts for CO ₂ Valorization	Universiti Teknologi PETRONAS	GOLD
796	The ESG Disclosure Institutional Framework for Malaysian Consulting Quantity Surveying Practices	UCSI University	GOLD
872	Real-Time pH Monitoring Via Aluminium Interdigitated Electrode (AL-IDE): A Low-Cost Approach	Universiti Malaysia Sabah	GOLD
768	An Enhanced Distribution Strategy on Optimisation of Community Libraries in Luoyang City	UCSI University	SILVER
817	Sustainable Digitalisation Adoption Model (SDAM) in Malaysian Construction Industry	UCSI University	SILVER
889	Crop Art Workshop-Agricultural Culture Square	UCSI University	SILVER
867	Modelling the Delayed Effects of Air Pollutants on Respiratory Hospital Admission using DLNM	Universiti Kebangsaan Malaysia	SILVER
814	Sustainable Smart Cities: Bow Ties	UCSI University	SILVER
815	Affordable, Sustainable, Accessible & Smart Public Transport Model [ASAS- Public Transport Model]	UCSI University	SILVER

Congratulations!

LIST OF WINNERS

PhD

A2: Social Sciences and Humanities

Ref. No.	Title	Institution	Award
770	Model of Sustainable Workspace for Architecture Firms in Malaysia	UCSI University	DIAMOND
792	ArchiAI: Artificial Intelligence (AI) Implementation Framework in Malaysia Architecture Education for Higher Education Institutions	UCSI University	GOLD
906	Biophilic Design Informed by Neuroarchitecture: Enhancing Social Participation and Active Ageing in Malaysian Senior Living Environments	UCSI University	GOLD
718	Collaborative Approach Structural Model for Successful Implementation of Green Procurement in Construction Projects	Universiti Teknologi MARA	GOLD
720	Determinants of Intention to Use Robo-Advisory Investment: Moderating Role of Financial Literacy	Universiti Teknologi MARA	GOLD
738	Framing the Role of Halal Food Supervisors Through The Lens of Halal Epistemology and Competency Standard	University Islam Sultan Sharif Ali	GOLD
747	Mapping the Landscape of Halal Ecosystem Research in Brunei: A Bibliometric Analysis of Scholarly Trends, Gaps and Strategic Directions	University Islam Sultan Sharif Ali	SILVER
795	Pre-conceptual Framework of Sustainability Interior Architectural Education for Private Higher Architecture Institutions in Malaysia	UCSI University	SILVER
816	Framework of Sustainable Implementation Assessment for Private Higher Education Institutions [PHEI] in Malaysia	UCSI University	BRONZE
831	BeyBlade TR.PkPs: A Readiness Model for Mathematics Teachers as Change Agents based on Professional Knowledge and Pedagogical Skills	Universiti Kebangsaan Malaysia	BRONZE

Congratulations!

LIST OF WINNERS

Master

B1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
848	Unveiling Anti-SARS-CoV-2 Activity from <i>Christia vespertilionis</i> Leaves: An In Vivo Evaluation	Universiti Kuala Lumpur Royal College of Medicine Perak	DIAMOND
903	Integrating Generative Artificial Intelligence (GenAI) in SQL Learning: Usability Study of a Prompt-Based Web Tutor	Universiti Teknologi Petronas	GOLD
752	Turning Waste into Energy: AI-driven Methane Modelling from POME	Universiti Malaysia Sabah	GOLD
799	Exploration of Intelligent Transportation System at Kunming City, Yunnan Province, China	UCSI University	GOLD
899	A Review of Green Technologies for Extraction of Vanillin from Leaves of <i>Vanilla Planifolia</i> : Advantages and Limitations	Universiti Malaysia Terengganu	GOLD
765	A Hybrid LLM-GAN Audio Steganography Method for Secure Mental Health Communication	Universiti Sains Islam Malaysia	GOLD
771	Enhancing Cryptographic Resilience through Symmetric Encryption Algorithm Utilizing Variable Length Chromosomes Genetic Algorithm	Universiti Sains Islam Malaysia	GOLD
865	Identifying and Monitoring Wetlands using Remote Sensing Techniques – GIS: A Case Study in Kuantan District	Universiti Malaysia Sabah	GOLD
785	EpiSpy: Innovative Multi-Layered Geo-Fencing Surveillance for Quarantine Surveillance	Universiti Sains Islam Malaysia	SILVER
905	Optimization and Kinetics of Flavor and Fragrance Ester Geranyl Acetate	University of Malaya	SILVER
846	A Comparison of Double-end Partial Discharge Localization Algorithms in Power Cables	Universiti Malaysia Sabah	SILVER

Congratulations!

LIST OF WINNERS

Master

B2: Social Sciences and Humanities

Ref. No.	Title	Institution	Award
730	Inventory Management Challenges in the e-Commerce Sector	Multimedia University	SILVER
721	The Role of Artificial Intelligence in Optimising Supply Chain Performance in the Pharmaceutical Sector	Multimedia University	SILVER
731	The Future is Now: Digital Innovation in Supply Chain Management for Manufacturing	Multimedia University	SILVER

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
835	Formulation and Evaluation of Sodium Alginate Beads Loaded with Thiamine Hydrochloride for Immediate Release	University Kuala Lumpur Royal College of Medicine	DIAMOND
812	Effect of Ethanolic Extract from Momordica charantia Fruits on Malondialdehyde and Fructosamine Levels in STZ-NA Induced Rattus norvegicus Model of Type 2 Diabetes Mellitus	Universitas Jenderal Soedirman	GOLD
811	RESPIRO (Healthy Respiration Free from Pollution): Biodegradable Mask from Oil Palm Frond α -Cellulose to Prevent Lung Cancer	Ganesha University of Education	GOLD
866	Exploration the Influence of Aluminium Oxide Nanoparticles on Enhancing Oil Recovery	Universiti Malaysia Sabah	GOLD
850	Powered Electrolysis: A Dual Approach to Hydrogen Generation and Seawater Purification for Sustainable Energy and Water Solutions	Universiti Malaysia Sabah	GOLD
882	Feasibility Study of Hybrid Renewable Energy System (HRES) for Sustainable Communities Development	Universiti Sains Islam Malaysia	GOLD
864	Evaluating Sodium Hydroxide and Surfactant Interaction Study on Enhanced Oil Recovery	Universiti Malaysia Sabah	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
842	Photothermochemical Power Generation of Ferri/Ferro Cyanide Redox Electrolyte	Universiti Malaysia Sabah	GOLD
751	Development of an Autonomous Vehicle System for Real-Time Obstacle Avoidance Using Microcontroller-Based Algorithm	Universiti Malaysia Sabah	GOLD
888	Investigating the Performance of Depleted Oil Bleaching Earth Particles as Adsorbent in Removing Ammoniacal Nitrogen (NH ₃ -N) in Landfill Leachate	Universiti Malaysia Sabah	GOLD
838	Performance of Bismuth Selenide as a Saturable Absorber for Mode-Locked Pulse Laser	Universiti Malaysia Sabah	GOLD
857	Reviving Nature's Remedy: Optimized Drying Method Unlocks Mentha spicata's Antioxidant Potential	University Kuala Lumpur Royal College of Medicine	GOLD
810	Development of Lactose Free-Low Glucose Ice Cream Based on Different Types of Sugar with the Addition of Carob as a Chocolate Substitute	Udayana University	GOLD
884	Investigation of Electrical Earthing Hazardous Voltage at Seremban, Negeri Sembilan	Universiti Sains Islam Malaysia	GOLD
824	Classification of Pavement Deformation of Road Network in UPNM Derived from Unmanned Aerial Vehicle (UAV) Digital	Universiti Pertahanan Nasional Malaysia	GOLD
844	Design and Fabrication of Oil Insulator Thermoelectrochemical Seebeck Sensor for Hv Oil Monitoring	Universiti Malaysia Sabah	GOLD
885	Potential of Zirconium based Metal Organic Framework (UZO-66) Particles as Adsorbent in Removal Chemical Oxygen Demand in Landfill Leachate	Universiti Malaysia Sabah	GOLD
856	AI Meets Palm Oil Waste: Neural Network-Based Forecasting and Optimization of Biogas from POME	Universiti Malaysia Sabah	GOLD
879	Investigation of Underground Power Cable Joint Performance in Distribution Network for Sustainable Urban Planning	Universiti Sains Islam Malaysia	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
873	Optimized RSS-Based Handover Algorithm for IOMT System in HetNet	Universiti Malaysia Sabah	GOLD
749	Personalized Travel Experiences in Kuala Terengganu: Implementing Content-Based Filtering in the KTTG Mobile Tourism App	Universiti Teknologi MARA Kuala Terengganu	GOLD
822	Experimental Study of Sediment Detachment Capacity by Overland Flow Using Hydrodynamic Parameters	Universiti Pertahanan Nasional Malaysia	GOLD
841	Seebeck Enhancement of Conventional Redox Couple Using Surface Modified Thermal Separator	Universiti Malaysia Sabah	GOLD
746	Modelling Hospitalization Costs of Motorcycle Road Traffic Accidents: A Generalized Linear Model Framework	Universiti Kebangsaan Malaysia	GOLD
876	Assessment of Tube Well Systems for Water Conservation in Residential Colleges at Universiti Malaysia Sabah: A Case Study Approach	Universiti Malaysia Sabah	GOLD
836	Design and Experimental Study of an Oscillating Water Column for Ocean Wave Energy Harvesting	Universiti Malaysia Sabah	GOLD
839	Bismuth Telluride as a New Saturable Absorber for Q-Switching Pulse Laser	Universiti Malaysia Sabah	GOLD
782	Mechanical Properties of Masonry Brick with Glass Fiber	Universiti Pertahanan Nasional Malaysia	GOLD
887	Formulation and Evaluation of Natural Face Toner Incorporated with Oenanthe Javanica Extract	University Kuala Lumpur Royal College of Medicine	GOLD
829	Bonding Strength of Natural Fibre-Based Biocomposites Laminate with Timber	Universiti Pertahanan Nasional Malaysia	GOLD
851	Enhancement of Smart Cementing Inclusion of Silica Oxide on the Physical Properties Adaptability	Universiti Malaysia Sabah	GOLD
806	Terrain Analysis Using Digital Imaged Derived from Unmanned Aerial Vehicle (UAV) for Cross Country Mobility in UPM Area	Universiti Pertahanan Nasional Malaysia	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
801	Relationship Between Optimum Moisture Content and Maximum Dry Density of Residual Soil and Bamboo Fiber Mix with Pozzolanic Binders	Universiti Pertahanan Nasional Malaysia	GOLD
779	Unconfined Compression Strength of Red Gypsum Soil Stabilize with Pozzolanic Binders	Universiti Pertahanan Nasional Malaysia	GOLD
870	Op-Amp Signal Amplification for Nanoamperev Biosensor Measurement	Universiti Malaysia Sabah	GOLD
803	Development of Fragility Functions for Roadway Bridges in Multiple Hazards	Universiti Pertahanan Nasional Malaysia	GOLD
723	Estimating Inpatient Healthcare Costs for Type II Diabetes with a Generalized Linear Model Approach	Universiti Kebangsaan Malaysia	GOLD
818	Integration of Sustainable Smart Building Systems in Klang Valley	UCSI University	GOLD
858	Drying Matters: A Comparative Drying Study on Mentha spicata for Enhanced Herbal Benefits	University Kuala Lumpur Royal College of Medicine	GOLD
820	Potential Multi Hazard Assessment Map Using GIS-Based: A Case Study at UPM Campus	Universiti Pertahanan Nasional Malaysia	GOLD
860	Freeze It or Heat It: Unlocking the Antioxidant Power of Murraya koenigii (Curry Leaves) through Different Drying Techniques	University Kuala Lumpur Royal College of Medicine	GOLD
877	Zirconium-Based Metal Organic Framework (Uio-66) Double Ligands with Amine-Carboxylic Acid (NH ₂ -H ₂ BDC) Adsorbent for Humic Acid Removal from Stabilized Landfill Leachate	Universiti Malaysia Sabah	GOLD
832	Underground Gas Leakage Detection and Alert System Using IoT	Universiti Tun Hussein Onn Malaysia	GOLD
859	Preserving Nature's Power: Drying Impact on Antioxidants in Curry Leaves	University Kuala Lumpur Royal College of Medicine	GOLD
908	The Effect of Humidity on the Electrical Properties of Polymer-Based Sensors	Universiti Tun Hussein Onn Malaysia	GOLD
794	Factors Affecting Female Labor Force Participation in ASEAN Countries	Universiti Sains Islam Malaysia	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
800	Sound Insulation of Wall Finishing Using Mortar and Recycled Materials	Universiti Pertahanan Nasional Malaysia	GOLD
725	Cost Estimation of Diabetes-Related Complications: A Single-Episode Inpatient Care Analysis	Universiti Kebangsaan Malaysia	GOLD
784	Application of Digital Twin in Inspection Structural Health of Piers using Terrestrial Laser Scanning (TLS)	Universiti Pertahanan Nasional Malaysia	GOLD
830	Seismic Fragility Assessment of Highway Bridges on Soft Soil	Universiti Pertahanan Nasional Malaysia	GOLD
833	Deep-Learning Tabular Data Detection and Extraction	Universiti Sains Islam Malaysia	GOLD
853	Waste to Watts: Methane Optimization from Pome through Response Surface Methodology	Universiti Malaysia Sabah	GOLD
791	Performance of Gypseous Soil Stabilize with Geo-Polymer	Universiti Pertahanan Nasional Malaysia	GOLD
781	The Effect of Extreme Rainfall on Unsaturated Soil Slope Stability	Universiti Pertahanan Nasional Malaysia	GOLD
881	Soil Loss Prediction using Revised Universal Soil Loss Equation (RUSLE) Model in Ranau, Sabah	Universiti Malaysia Sabah	GOLD
821	Accuracy Assessment of Qibla Direction for Application of Islamic Design Concept using Global Navigation Satellite System (GNSS)	Universiti Pertahanan Nasional Malaysia	GOLD
843	Finite Element Investigation of Hv Oil Insulation Condition Detection Using Metal-Insulator Transducer Time-Domain Thermoreflectance Method	Universiti Malaysia Sabah	GOLD
778	Sound Insulation of Binding Mortar for Brick Using Sustainable Material	Universiti Pertahanan Nasional Malaysia	SILVER
802	The Effect of Fibre Content on the Mechanical Characteristic of the Natural Fibre-Based Biocomposites Laminate	Universiti Pertahanan Nasional Malaysia	SILVER
883	Enhancing Satellite-Based Rainfall Estimation in Papar, Sabah using Machine Learning Techniques	Universiti Malaysia Sabah	SILVER

Congratulations!

LIST OF WINNERS

CONT...

Degree

C1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
777	Mechanical Properties of Masonry Brick with Shredded Plastic Waste	Universiti Pertahanan Nasional Malaysia	SILVER
847	Wearable Flexible Antenna for RF Energy Harvesting	Universiti Malaysia Sabah	SILVER
869	Investigation on Mechanical Properties and Carbon Emission of Paver Blocks Incorporating Pile Waste Slurry and De-Oiled Bleaching Earth	Universiti Malaysia Sabah	SILVER
874	The Properties of Pile Waste Slurry Containing De-Oiled Bleaching and Rubber Crumbs for Brick Production	Universiti Malaysia Sabah	SILVER
871	ESP32-CAM 4WD Vehicle Advanced Eeprom Sensor Calibration & Phyhonanywhere Cloud Integration	Universiti Malaysia Sabah	SILVER
787	The Influence of Transit-Oriented Development (TOD) on the Use of Mass Rapid Transit (MRT) in Kuala Lumpur	Universiti Pertahanan Nasional Malaysia	SILVER
783	Mode-Choice Behaviour Between Rail Transit, Ride-Hailing, and Private Vehicles in Transit-Oriented Development Settings	Universiti Pertahanan Nasional Malaysia	SILVER
904	Anti-Psoriatic Potential of Punica granatum Peel Extract	Management and Science University	SILVER
786	The Effect of Recycled Waste Glass on the Mechanical Properties of Concrete	Universiti Pertahanan Nasional Malaysia	SILVER
868	Spatial Analysis of Extreme Rainfall Over West Coast Division of Sabah, Malaysia	Universiti Malaysia Sabah	SILVER
826	The Effectiveness of the Green Campus Design Tool	Universiti Pertahanan Nasional Malaysia	SILVER
827	Assessing the Efficacy of Marble Dust and Coconut Coir Fiber as Strengthening Agents to Improve Clay Soil Stability	Universiti Pertahanan Nasional Malaysia	SILVER
780	Al-As'lah Arabic Exam Question Generator	Universiti Sains Islam Malaysia	SILVER
875	Elucidating the Durability Properties of Pile Waste Slurry Incorporating with Rubber Crumbs for Brick Production	Universiti Malaysia Sabah	SILVER

Congratulations!

LIST OF WINNERS

CONT...

Degree**C1: Science, Technology, Engineering and Mathematics**

Ref. No.	Title	Institution	Award
845	IoT-based Energy Meter for Electric Vehicle Scheduled Charging and Monitoring	Universiti Malaysia Sabah	SILVER
825	Effect of Short Sandpaper-Treated Recycled PET Wires on the Mechanical Performances of Concrete	Universiti Pertahanan Nasional Malaysia	SILVER
907	Comparison of the Chemical Properties of Tea Leaves and Coffee Bean Products	Universiti Tun Hussein Onn Malaysia	BRONZE
910	Plastic Packaging from Banana Pseudostem Fiber	Universiti Tun Hussein Onn Malaysia	BRONZE
823	Enhancing Flexural and Tensile Strength of Concrete Using Long Sandpaper-Treated Recycled Pet Plastic Fibers	Universiti Pertahanan Nasional Malaysia	BRONZE
909	Determination of Antioxidant Properties of Powdered Dragon Fruit Peel for Cosmetic Purposes	Universiti Tun Hussein Onn Malaysia	BRONZE
863	Green Campus Design Tool of Malaysian Public University Campus – An Analysis based on Green and Grey Elements	Universiti Pertahanan Nasional Malaysia	BRONZE

Degree**C2: Social Sciences and Humanities**

Ref. No.	Title	Institution	Award
724	Effects of Tiktok Influencers on the Purchase Intention of Gen-Z: Cosmetic Industry	Multimedia University	SILVER
861	Awareness of Personal Data Security in using Social Media among Universiti Malaysia Kelantan Students	Universiti Malaysia Kelantan	SILVER
862	The Factor Influencing the Continuous Usage Intention of e-Learning Systems among Commerce Students at Universiti Malaysia Kelantan	Universiti Malaysia Kelantan	BRONZE

Congratulations!

LIST OF WINNERS

Diploma

D1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
808	DrillSafeGel: Eco-Friendly, Kick-Preventive Drilling Mud from Agricultural Waste to Ensure Safer Well Operations	Polytechnic of Energy and Mineral Akamigas	DIAMOND
714	Adjustable Cylinder Drilling Jig	Kolej Vokasional Batu Lanchang	GOLD
878	Smart Cylinder Head Holder	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
739	A Study on the Application of Organic Griban Essence (OGE) Fertilizer in the Cultivation of Sweet Corn (Zea Mays)	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
713	Pneumatic Bearing Puller	Kolej Vokasional Batu Lanchang	GOLD
772	Measurement Component Kit V2	Kolej Vokasional Batu Lanchang	GOLD
893	EduDrill a Practical Mini Drill Press Designed for Technical Training and Workshop Safety	Universiti Teknologi MARA Terengganu	GOLD
743	The Effects of using Coconut Residue Compost Application on Sweet Corn Cultivation	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
898	Turning Trash into Treasure: Paper Ash as a Green Solution for Ceramic Glaze	Universiti Malaysia Terengganu	GOLD
773	Testing Learning Kit	Kolej Vokasional Batu Lanchang	GOLD
852	To Create a New Packaging and Branding for Ivory by the Lake Cafe	Politeknik Muadzam Shah	GOLD
740	The Influence of using Banana Corm MOL Application on Okra Cultivation Fertigation System	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
756	Shampoo Formulation from Hibiscus Extract (Hibiscus rosa-sinensis)	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
761	SmartLab Prototype	Kolej Vokasional Ipoh	GOLD
789	Modification and Upgrade of Concrete Mixer Machine for Educational Purposes	Kolej Vokasional Ipoh	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Diploma

D1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
741	A Study on the Use of Hydro-Waste Fertilizer on Okra Cultivation Using Conventional Methods	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
767	Design of Mini Manual Mortar Mixer in Plastile Work (Plastering & Tiling)	Kolej Vokasional Ipoh	GOLD
732	Design of a Multi-Level Mini Aqua-Filt System for Ammonia Reduction in Water Quality of Aquaculture	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
762	Development of a Prototype Smoke and Temperature Detection System with Automated Ventilation Control for Workshop Applications	Kolej Vokasional Ipoh	GOLD
748	Optimizing Golden Melon Growth and Yield in AutoPot Systems: A Medium Comparison	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
892	Material Mastery through Practical Classification of Carbon Steel, Aluminum and Cast Iron	Universiti Teknologi MARA Terengganu	GOLD
737	An Investigation into the Application of Pineapple Peel Mol on the Conventional Cultivation of Brinjal	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
727	The Production of Vita-Rin Supplement based on Banana Peel, Papaya Leaf Powder, and Turmeric Powder	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
769	3 in 1 Smart Inspection Tool	Kolej Vokasional Ipoh	GOLD
797	Vehicle Air Conditioning Notification Sensor Designed for In-car Maintenance and Servicing	Kolej Vokasional Ipoh	GOLD
891	Ladder-Go Portable Ladder a Safer and Smarter Choice for Maintenance Professional	Universiti Teknologi MARA Terengganu	GOLD
894	SolarMax Tracker Dual Axis Solar Solution for Maximum Energy Efficiency	Universiti Teknologi MARA Terengganu	GOLD
897	Multi-Size Sieve Sand Screening Machine	Universiti Teknologi MARA Terengganu	GOLD
901	Fabrication of Tensile Specimen Mold using Sand Casting Process	Universiti Teknologi MARA Terengganu	GOLD
766	Enhanced Wheel Barrow with Built-Insandfilter for Construction Workshop Use	Kolej Vokasional Ipoh	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Diploma

D1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
763	Aircond Service Notifier 4.0	Kolej Vokasional Ipoh	GOLD
733	Formulation of Green Water using Chlorella sp. for the Cultivation of Moina sp.	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
890	Orchid's Propagation of Phaius tancarvillea Species Using Innovative Tissue Culture Technique	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
735	The Influence of Spirulina platensis Concentration on Electricity Generation Using the Microbial Fuel Cell (MFC) Method	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
728	Lactobacillus casei and Egg as Foliar Application for Promoting the Growth of Abelmoschus esculentus	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
712	Ferrous Sweeper	Kolej Vokasional Batu Lanchang	GOLD
745	A Study on the Effectiveness of Oil Palm Bunches as a Germination Medium for Okra Plants	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
757	Centella Cold Powder	Kolej Vokasional Ipoh	GOLD
896	Innovative Coconut Dehusking Machine: Optimized Design for Improved Efficiency	Universiti Teknologi MARA Terengganu	GOLD
902	Fabrication of Torsion Specimen Mold using Sand Casting Process	Universiti Teknologi MARA Terengganu	GOLD
760	eKoku Vocational College Co-Curricular Management System	Kolej Vokasional Ipoh	GOLD
755	Formulation and Evaluation of Mulberry (Morus alba) Scrub for Skin Smoothness	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
716	M-Hand Lifting	Kolej Vokasional Batu Lanchang	GOLD
744	The Use of Monosodium Glutamate (MSG) as Additional Fertilizer to Cultivation of White Pak Choi using Solar Hydroponics System	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
742	An Experiment on the Cultivation of White Pak Choi using a Mixture of Coconut Husk Waste and Cocopeat through Table Fertigation System	Kolej Vokasional (Pertanian) Teluk Intan	GOLD

Congratulations!

LIST OF WINNERS

CONT...

Diploma

D1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
837	Design and Development of a Rainwater-Based Automatic Irrigation System	Kolej Vokasional (Pertanian) Teluk Intan	GOLD
758	Moringga Organic Scrub 2 in 1	Kolej Vokasional Ipoh	SILVER
759	Smart Matrix	Kolej Vokasional Ipoh	SILVER
715	Hydraulic Press Aluminium Scrap	Kolej Vokasional Batu Lanchang	SILVER
788	Easy Bender Tools	Kolej Vokasional Ipoh	SILVER
734	Production of Natural Fabric Dye from Tradescantia spathacea Extract	Kolej Vokasional (Pertanian) Teluk Intan	SILVER
750	Formulation of Moringa Oleifera-Based Pellets as Supplementary Feed for Clarias sp.	Kolej Vokasional (Pertanian) Teluk Intan	SILVER
774	Basic of Resistor Kit	Kolej Vokasional Batu Lanchang	SILVER
854	Welding Table Trolley	Kolej Vokasional (Pertanian) Teluk Intan	SILVER
726	Quail Weighing Cage Production for Quail Management Work on Poultry Farm	Kolej Vokasional (Pertanian) Teluk Intan	SILVER
729	Production of Betrova Wound Medicine for the Treatment of Wounds in Quail Livestock	Kolej Vokasional (Pertanian) Teluk Intan	SILVER
900	Microstructural Enhancement of Aluminum Alloys via Optimized Heat Treatment for Advanced Engineering Applications	Universiti Teknologi MARA Terengganu	SILVER
895	SafeLift Hydraulic Lift Table Solution for Safer and Ergonomic Workshop Operations	Universiti Teknologi MARA Terengganu	SILVER
840	Electrical Spring Valve Compressor	Kolej Vokasional (Pertanian) Teluk Intan	BRONZE
711	Portable Organic Food Shredder Machine	Kolej Vokasional Batu Lanchang	BRONZE
736	Effectiveness of Kangkung Fermented Plant Juice (FPJ) on the Pak Choy Cultivation	Kolej Vokasional (Pertanian) Teluk Intan	BRONZE

Congratulations!

LIST OF WINNERS

CONT...

Diploma

D1: Science, Technology, Engineering and Mathematics

Ref. No.	Title	Institution	Award
764	Super Cleaning Tools	Kolej Vokasional Ipoh	BRONZE
775	Smart Electronic Kit	Kolej Vokasional Batu Lanchang	BRONZE

Diploma

D2: Social Sciences and Humanities

Ref. No.	Title	Institution	Award
855	Clean Kicks Smart Clicks	Politeknik Muadzam Shah	SILVER

