

# Congratulations!

## OUTSTANDING AWARD

Ref No. 1536: **Hybrid Environmental Brick (HEB)**

Politeknik Sultan Idris Shah, Jabatan Kejuruteraan Awam  
*Anuar Bin Abdul Wahab (Leader), Saifulbahari Mohd Rasid & Hafizulhadi Bin Rahim*

## DIAMOND AWARD

### Category A

Ref No. 1550: **Telemusim Innovation for Enhancing Mastery in Learning the Four Seasons in Geography**

Labuan International School

*Fairzan Nazzila Nazrie (Leader), Rizuan Asmarah & Warnnie Musah*

### Category B

Ref. No. 1552: **ERAS-Emotion and Early Drowsiness Recognition Action Savvy**

Universiti Kuala Lumpur

*Dr. Mohd Amzar Azizan (Advisor), Muhammad Ismail Al Fatih Bin Mohd Fuad (Leader) & Alya Nabila Binti Nor Hisham*

### Category C

Ref. No. 1629: **DIMITRI (Smart and Active Edible Coating): Utilization of Lactic Acid Bacteria (LAB) from White Cabbage Heads (Brassica Oleracea L. Var Capitata) and Brazilin Compounds (C16H14O5) to Extend the Shelf Life of Fresh Meat**

MTsN 1 Kota Malang, Indonesia

*Linda Novitasari (Advisor), Hasna Febriana Syukurillah (Leader), Ain Nur Azizah Putri Harsya, Nahda Nur Handwiyen Widiastuti & Briliana Alya Nafisa*

## Category A1: Professional Social Sciences

REF #	PROJECT TITLE	INSTITUTION	AWARD
1577	TO-LAWAN 2.0	Institut Pendidikan Guru Kampus Rajang, Bintangor Sarawak	<b>GOLD</b>
1595	Revolution of i-Slide	Kolej Matrikulasi Johor	<b>GOLD</b>
1662	Monopoli Solat: Interactive Learning Methods for Prayer Recitations	Johore Matriculation College	<b>GOLD</b>
1601	M-CAS	KKBD / PUO	<b>GOLD</b>
1555	Green City Development Information Aid Card	Universiti Teknologi MARA (UiTM) Seremban 3	<b>SILVER</b>
1539	STACK THE ENGLISH GAMES (STEn.g) Innovation for Teaching and Learning Proses	Politeknik Kota Bharu	<b>SILVER</b>
1562	Concept Mapping - Informative Local Government Notes	Universiti Teknologi MARA (UiTM) Seremban 3	<b>SILVER</b>
1573	Learning Grammar of Singular and Plural of 'Verb To Be', 'Verb To Have' and 'Verb To Do' in The Present and Past Tense & Grammar of Singular and Plural of 'Simple Present and Past Tense' & 'Present and Past Continuous Tense' using Best Handphone Pillow	Labuan Education Department	<b>SILVER</b>
1599	Smart Building Structure	Kolej Vokasional Melaka Tengah	<b>BRONZE</b>
1627	E-CLASS@JP	Politeknik Ungku Omar	<b>BRONZE</b>

## Category A2: Professional Science, Engineering & Technology

REF #	PROJECT TITLE	INSTITUTION	AWARD
1547	Integrated Smart Safety Vest	UCSI University	<b>GOLD</b>
1567	EZ Forecast: A System of Univariate Models	UiTM Cawangan Negeri Sembilan, Kampus Seremban	<b>GOLD</b>
1574	A hybrid DEA-PROMETHEE II: A Complete Ranking of DMus	UiTM Cawangan Negeri Sembilan, Kampus Seremban	<b>GOLD</b>
1568	Vertical Disruption Decantation Centrifugal Machine	BA MOI Limited Liability	<b>SILVER</b>
1587	Vertical Continuous Decantation Centrifugal Machine	BA MOI Limited Liability	<b>SILVER</b>
1660	Dielectric Materials Double Perovskites for Applications in Microwave Frequencies	Universiti Teknologi Mara, UiTM Shah Alam	<b>SILVER</b>
1537	Recycled Fly Ash as Sustainable Construction Materials	Politeknik Kuching Sarawak	<b>BRONZE</b>
1661	i BENCANA: Mobile Application	UiTM Cawangan Perak, Kampus Tapah Dan Pejabat Penghulu Mukim Sungai Raia, Perak.	<b>BRONZE</b>

## Category B1: Higher Institution Students (Social Sciences)

REF #	PROJECT TITLE	INSTITUTION	AWARD
1566	Read It My Way: Short Story Empowered	Universiti Kebangsaan Malaysia	<b>GOLD</b>
1609	Machine Learning: Innovation in Constructing Tourism Sustainable Competitiveness Performance Indicator	Universiti Malaysia Sarawak (UNIMAS)	<b>GOLD</b>
1546	Enhancing Year Four Primary Pupils' Sentence Construction Skills using Powerpuzz with Quizizz	Universiti Kebangsaan Malaysia (UKM)	<b>GOLD</b>
1598	Kelulut E-Book	Universiti Teknologi MARA (UiTM) Kampus Pasir Gudang	<b>GOLD</b>
1650	AYO NGABDI! : Digital Empowerment Platform for Village Communities through Smart Integrated Online System to Support Sustainable Development Goals 2030	University of Brawijaya	<b>GOLD</b>
1560	NoSA (No Smoking App) as an Innovative Application for Educating and Monitoring to Create an Indonesia's Healthy Young Generation	University of Jember	<b>GOLD</b>
1642	Alphaflex Tool	Politeknik Metro Tasek Gelugor	<b>GOLD</b>
1544	Didi The Explorer Mobile Game	Multimedia University	<b>GOLD</b>
1565	Interactive GramMic Module: An Interactive Comic Book for Teaching and Learning Grammar Effectively	Faculty of Education, Universiti Kebangsaan Malaysia	<b>SILVER</b>
1564	Symbolic Perception in Issues of Terrorism in Community Groups	Brawijaya University	<b>SILVER</b>
1654	Using "Animaker" to Tailor Reading and Writing Skills among Year 3 Pupils in Times of (Covid-19)	Universiti Kebangsaan Malaysia	<b>SILVER</b>
1646	What's the Story?	The National University of Malaysia	<b>SILVER</b>
1648	District Non-Internet Learning Management System (d-NIL-MASY): Solution for Learning in Pandemic Era for Students with Lack Internet Condition	Universitas Pendidikan Indonesia	<b>SILVER</b>
1561	KREAR: Creative Entrepreneurship Incubator for Street Children to Support Sustainable Development Goals	Brawijaya University	<b>SILVER</b>
1579	"MyScene Tube"	Universiti Kebangsaan Malaysia	<b>SILVER</b>
REF #	PROJECT TITLE	INSTITUTION	AWARD
1558	SOS (Dessert From Corn Silk) for a Healthier Dessert	State Polytechnic of Malang	<b>BRONZE</b>
1576	Using Tweet-To-Speak to Enhance Tertiary Students' Speaking Skill	National University of Malaysia	<b>BRONZE</b>
1645	iSpeak	Universiti Kebangsaan Malaysia	<b>BRONZE</b>
1575	Get Your Articles Right!	Universiti Kebangsaan Malaysia (UKM)	<b>BRONZE</b>
1619	Let's #tiktoktell: Enhancing Form 4 Pupils' Speaking Skills via TikTok	Universiti Kebangsaan Malaysia (UKM)	<b>BRONZE</b>

## Category B2: Higher Institution Students (Science, Engineering & Technology)

REF #	PROJECT TITLE	INSTITUTION	AWARD
1657	Water Storage as a Passive Damper to Reduce Earthquake Impact toward High-Rise Structure	Universiti Teknologi MARA (UiTM) Shah Alam	<b>GOLD</b>
1608	Self-Powered Cement-Based Battery (Cocab)	Universiti Teknologi MARA (UiTM) Shah Alam	<b>GOLD</b>
1593	AIADIN : Dental Toolbox Sterilizer Plasma based and Solar Cell Integrated towards Industrial Revolution 4.0	Universitas Brawijaya	<b>GOLD</b>
1556	Calculus of Innovation	UiTM Cawangan Johor Kampus Pasir Gudang	<b>GOLD</b>
1641	ALCANSIS (Activated Carbon From Algae as Green Alternative Catalyst Support for Hydrogen Production in Water Electrolysis)	University of Brawijaya	<b>GOLD</b>
1582	Automated Entry Checkpoint (VidSafe Gate)	Universiti Sains Malaysia	<b>GOLD</b>
1553	ISIGN-Intelligent Sign Gesture	Universiti Kuala Lumpur	<b>GOLD</b>
1554	ISOBER-Intelligent Alcohol Detection	Universiti Kuala Lumpur	<b>GOLD</b>
1585	Medicine Fluid Level Indicator Using IOT System	Kolej Kemahiran Tinggi MARA Ledang	<b>GOLD</b>
1610	Utilization of Membrane Made of Material Carbon Templated Zeolites-Base in Separation of Co <sub>2</sub> and O <sub>2</sub> Gases by Applying of System RBA as an Alternative Solution for Reducing Air Pollution and to Increase Quality of Clean-Healthy Air in Urban Areas	Mataram University/Indonesia Scientific Society	<b>GOLD</b>
1551	Electric RC Wheelbarrow	Likas Vocational College	<b>GOLD</b>
1557	Evaluation of Pavement Rehabilitation using a Non-Destructive Analysis	Universiti Kebangsaan Malaysia (UKM)	<b>GOLD</b>
1590	Orthodontics Indices Digital Analysis Systems	Kolej Kemahiran Tinggi MARA Ledang	<b>GOLD</b>
1545	Eco-Cup	Individual	<b>SILVER</b>
1586	Smartwatch Gas Detector for Industrial Workers	Kolej Kemahiran Tinggi MARA Ledang	<b>SILVER</b>
1596	Propolis Herbs Organic Body Wash	UiTM Pasir Gudang	<b>SILVER</b>
1628	Nano Clarimoringa Preparation for Topical Cream on Postoperative Skin	IPB University	<b>SILVER</b>
1584	Non-Invasive Bacteria Detector	Kolej Kemahiran Tinggi MARA Ledang	<b>SILVER</b>
1583	Drowsiness Driver Detection using Raspberry Pi	Kolej Kemahiran Tinggi MARA Ledang	<b>SILVER</b>
1602	Transroller Walker with Alarm Control	KKTM Ledang	<b>SILVER</b>
1649	Integrated Design of Vehicle Power Window with Co Sensor	Politeknik Kuching Sarawak	<b>SILVER</b>
1647	Voice Reader (VR) Watch : Solution for Hearing Impairment People to Traveling without Language Districed	Universitas Pendidikan Indonesia	<b>SILVER</b>
1559	Green Building Conservation through Extensive Green Roof Solutions in Sustainable Buildings to Overcome Sick Building Syndrome	Diponegoro University	<b>SILVER</b>
1655	Green Retrofit: The Potential of Reducing the Knowledge Gaps of Building Professionals and Homebuyers	Universiti Teknologi MARA	<b>SILVER</b>

REF #	PROJECT TITLE	INSTITUTION	AWARD
1542	"Herb-B" (Herbal Biscuits) Utilization of Leaf Dadap Serep (Erythrina Lithosperm Miq) as Processed Product for Fever Healing based on Alternative Medicine (Case Study in Ponorogo Regency, East Java, Indonesia)	Brawijaya University	SILVER
1597	Kelulut Organic Soap	UiTM Pasir Gudang	SILVER
1617	SNEPY! (Smart Neck Pillow Yippee!): An Innovation to Prevent Tension Neck Syndrome and Oversleeping for Public Transportation Users	Universitas Brawijaya	SILVER
1588	A Portable Colour Sensor Based Urine Strip Detector System for Specific Organ Disease Analysis	Kolej Kemahiran Tinggi MARA Ledang	BRONZE
1589	Exoskeleton for Legs Rehabilitation	Kolej Kemahiran Tinggi MARA Ledang	BRONZE
1594	IOT Based Heart Attack Detection using Wristband	Kolej Kemahiran Tinggi MARA Ledang	BRONZE
1580	Prevention of Infectious Diseases: Development of Community Health Modules (LEPTOMALAMELI) towards Wellness in National Park	Universiti Teknologi MARA	BRONZE
1581	The Impact of Community-Based Cardiac Rehabilitation Intervention in Improving Quality of Life and Clinical Outcome of Stable Coronary Heart Disease Patients	Universitas Brawijaya	BRONZE
1591	Methanolic Extract Leaves of Ficus Religiosa as Diabetic Wound Treatment in Streptozotocin-Induced Rat Model: In Silico and in Vivo Perspective	Brawijaya University	BRONZE
1614	Padestrian Lamp using Kinetic Energy (Footstep) and Piezoelectric	Kolej Kemahiran Tinggi MARA Ledang	BRONZE
1633	The Potential of Ethyl Acetate Extract Fraction of Streptomyces Hygroscopicus Subsp. Hygroscopicus in Decreasing Cell Proliferation Rate and DNA Expression in Colorectal Cancer DLD-1 Cell Line Nucleus	Universitas Brawijaya	BRONZE
1632	Efficacy and Safety of Self-Antigen dsDNA Desensitization as Immunomodulator in Pristane-Induced Lupus Mice Model	Universitas Brawijaya	BRONZE
1613	SMART IONIZER LAMP	University of Diponegoro	BRONZE

## Category C: School Students

REF #	PROJECT TITLE	INSTITUTION	AWARD
1623	ABC Literacy Board	SK Kampong Jawa, Segamat, Johor	<b>GOLD</b>
1631	S-Gyvice Gen. 2.0 Sound Energy Harvesting Device with Modification of Piezoelectric Circuit for Diversification of Micro Energy	MTs Negeri 1 Kota Malang	<b>GOLD</b>
1625	Eco-Ceiling Combination of Cockel Shells (Pilsbryoconcha Exilis) with Dutch Betel Leaf (Epipremnum Aureum) to Reduce Radiation and Produce Heat	SMA Negeri 1 Lamongan/Indonesia Scientific Society	<b>GOLD</b>
1569	Sanjeevani: A Novel Automated System for Hospital Acquired Infection Monitoring and Prevention	Jesuit High school	<b>GOLD</b>
1630	Smart and Portable Onion Pest Attractor Gen. 2.0	MTs Negeri 1 Kota Malang	<b>GOLD</b>
1543	FB in FC (FLIP BOOK in FLIP CLASSROOM)	SK Tenang Stesen, Segamat Johor	<b>GOLD</b>
1600	Designing Educational Game Board (Lucid) as a Step for Equitable Adolescent Sexual Health Education in Indonesia.	SMA Negeri 38 Jakarta/Indonesia Scientific Society	<b>GOLD</b>
1653	Herbal Stain Guard *Upgrated Version	SJKT Taman Tun Aminah	<b>GOLD</b>
1607	NCB (Natural Composite Board) as Altermative Composite Board for Eco Building Developoment of National Park	SMA Negeri 1 Lamongan/Indonesia Scientific Society	<b>GOLD</b>
1624	MAC BAR- (Banana Blossom Energy Bar)	SJK(T) Ladang Rini	<b>GOLD</b>
1635	Biwaste Fuelgenerator	SMAN 2 Tangerang Selatan	<b>GOLD</b>
1549	Smart Medical Ward	G-Robotech Academy	<b>SILVER</b>
1604	Optimization of The Extract Utilization of Betle Leaves (Piper Betle), Kalang And Gambir (Uncaria Rubiaceae) in The Making of Washing Soap Based on Natural and Environmentally Friendly Washing Oil	SMA N 1 Simpang Kiri/Indonesia Scientific Society	<b>SILVER</b>
1636	Survive in Disaster(SID), Realtime Mobile Warning Applications for Security and Safety of Foreign Tourists in Indonesia	International Standard School of Amanatul Ummah Pacet	<b>SILVER</b>
1570	INOMAJ Can Improve Student's Performance, Conception and Interest in Compound Nouns Learning	Sekolah Kebangsaan Bayan lepas Dua	<b>SILVER</b>
1644	SAGO COAL	Maktab Rendah Sains MARA Mukah, Sarawak	<b>SILVER</b>
1651	Ez Sense	SJK (C) Tun Tan Cheng Lock Subang Jaya	<b>SILVER</b>
1626	Neem Shine (Dish Wash Soap with used Cooking Oil)	SJK(T) Ladang Rini	<b>SILVER</b>
1622	Scan-Pay-Go System	Seri Omega International School	<b>SILVER</b>
1640	Go-Pure: Metroxylon Sagu as Water Purifier	Maktab Rendah Sains MARA Mukah, Sarawak	<b>SILVER</b>
1659	EzMath Apps	SJKC Chi Seng 2	<b>SILVER</b>
1548	Child Tracking System	SMK Kota Masai	<b>SILVER</b>

COMPETITION RESULTS

REF #	PROJECT TITLE	INSTITUTION	AWARD
1620	SMART MINI BUDGETER	SJKT Ladang Rini	BRONZE
1637	Effectiveness of Kuningan’s Organic Hand Sanitizer (KOHS) as Skin Friendly Sanitizer	SMA IT Almultazam	BRONZE
1621	Mechanised Garment's Dryer	SJKT Ladang Rini	BRONZE
1535	Our Element of Surprise - Towards a Greener Future	Private International English School, Abu Dhabi	BRONZE
1643	Save Our Nature	SJKT Vageesar, Kuala Selangor	BRONZE
1638	Eco Friendly Fertilizer with Natural Pesticides (Powder)	SJKT Vageesar, Kuala Selangor	BRONZE
1603	KEBAFERAN (Kepok Banana Flour Indonesia) as an Alternative Solution to Treat Banana Peel Waste into Aromatic Flour in the Making of Donuts in the Covid -19 Pandemic	SMA N 1 Simpang Kiri/Indonesia Scientific Society	BRONZE
1605	Organoleptic Test on Protected Packaging Milk Calcium of Waste Raced Chicken Egg	SMA N 1 Simpang Kiri/Indonesia Scientific Society	BRONZE