

TECHNOLOGY AND ENGINEERING CLUSTER

GOLD

Name	Invention	University
Agus Saptoro	AgriSmartEye: A Rapid, Reliable and Cost-Effective Detector of Authenticity and Geographical Origin of Ground Black Pepper	Curtin University, Malaysia
Annisa Binti Jamali	Food Drying Machine with Smoker	Universiti Malaysia Sarawak
Charles Bong Hin Joo	Modular Velocity Attenuation (MOVA) unit for Subsurface Stormwater Detention and Conveyance	Universiti Malaysia Sarawak
Harith Ahmad, Muhamad Zharif Samion	A Low Cost 3D Printed Optical-Based Inclinometer for Measurement of Ground Movements	Universiti Malaya
Kamyar Mehranzamir	Smart Online/Offline Dual-axis Solar Tracking System	University of Nottingham Malaysia
Kartinah Bt Zen	Landslide Real-Time Remote Monitoring and Alert System	Universiti Malaysia Sarawak
Ku Nurul Fazira Binti Ku Azir	Classification Of Cooked Foods Contamination Based On Machine Learning And E-Nose Application	Universiti Malaysia Perlis
Madiyah Binti Omar	Digital-Twin and Predictive Maintenance Software of Dry-Low Emission Gas Turbine	Universiti Teknologi PETRONAS
Mohammad Abdullah	NATKAP - An Oil Filter Using Kekabu (KAPOK) for Cage Fish Farming	Universiti Teknologi MARA (UiTM)
Naser M Ahmed	Laser assisted Synthesis Silver Nanowires for enhancement properties: Adhesion, Transmission and Conductivity	Universiti Sains Malaysia
Nor Kamaliana Khamis	Automated Warning System Equipped with Force Resistance on Steering Wheel for Detecting Microsleep	Universiti Kebangsaan Malaysia

Nor Mohd Razif Bin Noraini	Analysis of Preferential Flow Effect on Adsorption Layer of the Gas Mask Filter	National Institute of Occupational Safety and Health
Nozieana Binti Khairuddin / Btu	Smart Anti-Pest Fruit Packaging	Universiti Putra Malaysia Kampus Bintulu
Qistina Abdul Razak	JUMET	Universiti Teknikal Malaysia Melaka
Rosdiazli Ibrahim	Motor Bearing Non-Invasive Fault Detection (MOBIT)	Universiti Teknologi PETRONAS
Siti Kudnie Bt Sahari	SO-EL MFC: Soil Single Chamber Microbial Fuel Cell (SMFC)	Universiti Malaysia Sarawak
Suchitra Ramasamy	Cracking Evaluation Of Micro Steel Fibre (Msf) Concrete By Utilising Acoustic Emission Signal Method	Universiti Tun Hussein Onn Malaysia
Tay Meng Guan	Enhance Version of Turning Wastewater to Electricity: PFCELL2.0	Universiti Malaysia Sarawak
Vikneswaran Munikanan	Green Tech Brick	Universiti Pertahanan Nasional Malaysia
Yie Hua Tan	Developing Magnetic Functionalized Carbon Nanotube-Based Buckypaper for Micropollutants Removal	Curtin University Malaysia
Yong Ching Yee	A Smart Distribution Board With IoT and Fault Detection	University of Technology Sarawak
Yonis. M.Yonis Buswig	Footstep Power Generation System Using Piezoelectric Sensor Technology (PIEZOF00T)	Universiti Malaysia Sarawak
Zainuddin Sajuri	All-around Protective Bulletproof Vest for Defence and Security	Universiti Kebangsaan Malaysia

SILVER

Name	Invention	University
-------------	------------------	-------------------

Ana Sakura binti Zainal Abidin	HPS: Hybrid Palm Sugar Stove	Universiti Malaysia Sarawak
Annisa binti Jamali	Self-Tuned Active Vibration Control of a Gradient Flexible Structure using Evolutionary Algorithm	Universiti Malaysia Sarawak
Dayang Norafizan binti Awang Chee	Dual-action Membrane For Water Treatment	Universiti Malaysia Sarawak
Ilya Maisarah Hisham	FIREKA	Universiti Teknikal Malaysia Melaka
Ir Dr Wan Sieng Yeo	A New Integrated Model For Yellowness Index Measurement	Curtin University, Malaysia
Ir. Dr. Hassimi bin Abu Hasan	Formulation of specific consortium bacteria for ammonia removal in wastewater	Universiti Kebangsaan Malaysia
king hann Lim	Ai3D-CAMS for sport e-profiling	Curtin University, Malaysia
Lau Sei Ping	FaultSense: Early Streetlight Fault Sensing and Monitoring using Real-time Current Differential Technique	Universiti Malaysia Sarawak
Mohd Asyraf Zulkifley	Forest Alert: Satellite-based Monitoring System	Universiti Kebangsaan Malaysia
Noor Azie Azura binti Mohd Arif	Sensitivity Enhancement of Fiber Optic Sensor with Zinc Oxide Coated on Hetero-Core Macrobending Structure	Universiti Malaysia Sarawak
Olivia Anak Rayeg	CorrodeSHIELD - a green corrosion inhibitor	Universiti Teknologi MARA (UiTM) SARAWAK
Samer Zyoud, N. M. Ahmed	Fast and Excellent Enhanced Water Organic Contamination Treatment by Photodegradation using Al-and/or Ag-doped ZnO Nanopowders under UV and Blue Laser Irradiation	Universiti Sains Malaysia
Tengku Nur Adibah Binti Tengku Hassan	Green and Sustainable Environmental Remediation via High-Performance Pebax 1657/Hierarchical Zeolite T Composite Membrane for Monetization of Waste Into Biofuels	Universiti Teknologi PETRONAS
Yong Ching Yee	Rehab Device: Let's Me Control Your Move	University of Technology Sarawak
Yonis. M.Yonis Buswig	IoT-based Smart City Air-quality Monitoring System (IoT-Scans)	Universiti Malaysia Sarawak

BRONZE

Name	Invention	University
Abdul Fattah Ab Razak	The Optimization of Soaking and Grinding Conditions Towards Kenaf Seeds Milk Physicochemical Properties	University College of Technology Sarawak
Ateeb Hassan	IoT Based Cost-Effective Smart Energy Meter	Swinburne University of Technology, Sarawak Campus
Awang Nasrizal Awang Ali	Smart Green (SG) Stormwater Filter System	Universiti Malaysia Sabah
Balbir Singh Mahinder Singh	Design and development of an enhanced solar desalination system	Universiti Teknologi PETRONAS
Chia Yang Kang	Design of Hydro Turbine Management Unit for Pico Hydro in Rural Areas	Politeknik Kuching Sarawak
Dyg Norkhairunnisa Binti Abang Zaidel	Square Minkowski Fractal Antenna for Environmental Science-Application of Fourier Transform Near-Infrared (FT-NIR) Spectroscopy	Universiti Malaysia Sarawak
Dyg Norkhairunnisa Binti Abang Zaidel	Wideband PGS Parallel Coupled Line Band Pass Filter for Wireless Communication System	Universiti Malaysia Sarawak
Hii Siew Ling	Bio-gassum -- The Future of Biobased Food Packaging Material	University of Technology Sarawak
Kuok King Kuok	Raindrop Size Distribution Using Photogrammetric Technique	Swinburne University of Technology, Sarawak Campus
Latifah Binti Omar	Self-built mini rotary machine for urea coating	Universiti Putra Malaysia Bintulu Campus
Myia Yuzrina Zalkis Ayol	justHO	Universiti Teknikal Malaysia Melaka

Rudy Ko Vui Keong	Synthesis of Borneo Meranti Wood Polymer Composites for Automotive Interior Parts	Swinburne University of Technology, Sarawak Campus
Rudy Tawie	Cube Test Report App	Universiti Teknologi MARA (UiTM) SARAWAK
Shamsiah Bt. Suhaili	Simulation-Based Power Estimation of Low Power SHA-256 Cryptographic Hash Function Design Techniques	Universiti Malaysia Sarawak
Shan Jiancheng	IMPLEMENTATION OF DIGITAL TWINNING IN MALAYSIAN CONSTRUCTION INDUSTRY	Swinburne University of Technology Sarawak Campus
Syed Tarmizi Bin Syed Shazali	AUTOMATED MEDICAL DEVICE RISK PRIORITIZER	Universiti Malaysia Sarawak
Tasha Lai	Eco-Friendly and Sustainable Dielectric Material Made of Natural Banana Fiber for Printed Circuit Boards	Swinburne University of Technology, Sarawak Campus
Vikneswaran Munikanan	LUMINESCENT EMERGENCY SIGNAGE FOR DISASTER RELIEF CENTRES	Universiti Pertahanan Nasional Malaysia
Wan Muhammad Aqil Wan Samsuddin	AQUAR	Universiti Teknikal Malaysia Melaka

MERIT

Name	Invention	University
Adib Fikri Bin Abdul Manaf	Evaluation of Polyethylene Terephthalate in Concrete by Using Non-Destructive Testing Method	Universiti Tun Hussein Onn Malaysia
Muhamad Azani Yahya	Light Transmitting Concrete	Universiti Pertahanan Nasional Malaysia