












## GOLD AWARD

#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
1	E22	A Smart Peat Swamp Forest Fire Detection System	Universiti Tun Hussein Onn Malaysia	Agriculture, Environmental and Renewable Energy (ARE)	
2	E53	Waste to Wealth; A Novel Biodegradable Composites from Agriculture Waste for Drug Delivery	Universiti Malaysia Kelantan	Agriculture, Environmental and Renewable Energy (ARE)	
3	E55	Mini Hydroponic System with Solar Pv Energy	Universiti Tun Hussein Onn Malaysia	Agriculture, Environmental and Renewable Energy (ARE)	
4	E10	Neuro-therapy: Alternative Psychotherapy Intervention for Memory Disorder	Universiti Utara Malaysia, Universiti Sains Malaysia, Universiti Malaysia Kelantan, Jabatan Kebajikan Malaysia	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
5	E50	Self Suction Holder: A Helping Tools in Four Handed Dentistry	Klinik Pergigian Utc, Klinik Pergigian Kubang Kerian, Klinik	Pandemic Innovation, Education (PIE)	



# NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
			Pergigian Pengkalan Chepa		
6	E34	Akademi Youtuber Apps	Universiti Putra Malaysia	Education (EDU)	
7	E44	Blade for Pineapple Leaf Fiber Extractor Machine	Universiti Putra Malaysia	Manufacturing Process, Machines and Equipment (MPE)	
8	E103	Operation Excursion: Edutainment Game about Geography	Universiti Teknikal Malaysia Melaka	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
9	E89	Real-time Monitoring IoT-Based System for Early Flash Flood Notification in Melaka	Universiti Teknikal Malaysia Melaka	Agriculture, Environmental and Renewable Energy (ARE)	
10	E26	Forum Theatre: Post-Pandemic Pedagogy of Moral Education	Universiti Pendidikan Sultan Idris	Education (EDU)	
11	E85	Smart Component Box Using Google Assistant	Kolej Vokasional Sultan Ahmad Shah	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	



# NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
12	E95	Sustainable Bioelectricity From Ultisols For Insecticide Control By Using Insect Zapper	Universiti Teknologi Malaysia	Agriculture, Environmental and Renewable Energy (ARE)	
13	E24	Multi-Purpose Motorcycle: Smart 3-Wheel Bike Empower Disabled Entrepreneurs	Universiti Kebangsaan Malaysia	Education (EDU)	
14	E92	Running Rangers Game	Universiti Pendidikan Sultan Idris	Education (EDU)	
15	E90	Reconstruction Hyperbolic Image of Buried Object using GPR B-Scan Image for Mapping Purposes	Universiti Malaysia Perlis	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
16	E68	Automated Recognition System for Percentage Score of Lung Coronavirus Disease 2019 Involvement	Universiti Malaysia Perlis	Pandemic Innovation, Education (PIE)	
17	E73	GPR RoadScan: Portable Mounting System	Agensi Nuklear Malaysia	Automotive, Transportation and Industrial Design (AID)	



# NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
18	E33	MSL-Math 1	Politeknik Port Dickson	Education (EDU)	
19	E42	Ionic Cards; A Multipurpose Game to Study Ionic Formula in Chemistry	Smk Bandar Tun Hussein Onn 2	Education (EDU)	
20	E48	Portable All-Optical Radio Frequency Signal Generator	Universiti Tun Hussein Onn Malaysia	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
21	E23	SUPER-T: An Equipment for Early Intervention Programme in Pediatric Rehabilitation	Universiti Sains Malaysia	Pandemic Innovation, Education (PIE)	
22	E72	E-PTA Kit	Kolej Vokasional Kuala Selangor	Education (EDU)	
23	E97	TB Mortality Hotspot Identification Tool	Universiti Putra Malaysia	Biotechnology, Health and Chemicals (BHC)	



NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
24	E16	Writing And Publishing Feature Stories For Media: A journalistic, linguistic and psychological approach in motivating beginners	Universiti Sains Islam Malaysia	Education (EDU)	
25	E37	Sign Language Easy Learning (Version 1.0)	Universiti Teknologi MARA And Universiti Sultan Zainal Abidin	Education (EDU)	
26	E56	The Evolution of The Batik Perfect-10 EndemicTravel Kit: Community Sustainability of Local Batik Heritage	Universiti Teknologi MARA	Pandemic Innovation, Education (PIE)	
27	E66	Automated Classification System for Plasmodium Falciparum and Plasmodium Knowlesi Malaria Species	Universiti Malaysia Perlis	Pandemic Innovation, Education (PIE)	
28	E77	Infographics: The Imagery Messenger	Universiti Malaysia Terengganu	Education (EDU)	
29	E86	CocoBrown Scrub	Kolej Vokasional Dato Undang Haji Muhammad Sharip	Education (EDU)	



NATIONAL INNOVATION & INVENTION COMPETITION 2022








#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
30	E87	Pendidikan Keusahawanan Melalui Teknik Gamifikasi	Melaka International College of Science and Technology (MiCOST)	Education (EDU)	
31	E98	The Effectiveness of Interactive Learning Approach in Mathematics Lesson To Enhance Primary School Children's Learning Interest And Cognitive Skills	UiTM / SJK(C) Sin Ming Puchong / PPD Samarahan / PPD Batu Pahat	Education (EDU)	
32	E39	Aplikasi Realiti Terimbuhan Dalam Tajuk Pelan dan Dongakan	Sekolah Menengah Agama Kota Tinggi	Education (EDU)	
33	E82	Multi-Purpose Motorcycle: Smart 3-Wheel Bike Empower Disabled Entrepreneurs	Universiti Malaysia Kelantan	Manufacturing Process, Machines and Equipment (MPE)	
34	E18	Stay Awareness with fun: Hit the Viruses Game App	Universiti Malaysia Sabah	Pandemic Innovation, Education (PIE)	
35	E67	Automated Recognition System For Iron And Normal Red Blood Cells In Human Body	Universiti Malaysia Perlis	Pandemic Innovation, Education (PIE)	








# NATIONAL INNOVATION & INVENTION COMPETITION 2022



#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
36	E45	PUTRA UAV: Bio-Degradable Natural Fibre Composite Material	Universiti Putra Malaysia	Building, Construction and Materials (BCM)	
37	E17	Cloud Magnetometer For Vehicle Detection- CLOUD MAG PRO	Universiti Tun Hussein Onn Malaysia	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
38	E76	i-SpeEdLe: Interactive Special Education Learning	Sekolah Kebangsaan LKTP Tenggara 5	Education (EDU)	
39	E12	Mesra Ibadah Apps : A Patient enable prayer checklist	Hospital Sultanah Nora Ismail	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
40	E40	Ai-based Route Planning for a Sustainable Healthcare Supply Chain	Universiti Malaysia Perlis	Pandemic Innovation, Education (PIE)	

## SILVER AWARD








#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
1	E15	Transformasi dalam Pengajaran dan Pembelajaran melalui Penggunaan ABM Carta Suku Kata dan Inovasi Sam's Smart Core Kit di Rumah Semasa Pandemik Covid 19	Institut Pendidikan Guru Kampus Keningau Sabah	Education (EDU)	
2	E49	Real Time RFID-IoT Asset Tracking and Monitoring Management System	Universiti Tenaga Nasional	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
3	E96	IoT Based Smart Helmet for Student Monitoring System using Facial Recognition	Universiti Malaysia Perlis	Pandemic Innovation, Education (PIE)	
4	E38	Smart Mailbox	Universiti Teknikal Malaysia Melaka	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
5	E43	Lactobacillus Plantarum Probiotics for Genuine Butter Production in Food Technology	Universiti Malaysia Pahang	Manufacturing Process, Machines and Equipment (MPE)	





# NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
6	E61	TASDUKO-BA	Universiti Teknologi MARA	Education (EDU)	
7	E71	DURAShield: A novel radiation shielding material which successfully integrates between compression strength, durability and homogeneity.	Agensi Nuklear Malaysia	Building, Construction and Materials (BCM)	
8	E29	Smart Food Bank application: Towards Zero Hunger for UUM Community	Universiti Utara Malaysia	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
9	E63	ADIL: Advanced and Integrated Learning Process to Enhancing the Graduate Employability Rates	Universiti Utara Malaysia	Pandemic Innovation, Education (PIE)	
10	E78	Intelligent Electronic Arbitration: A Blockchain-Based Model	Universiti Utara Malaysia	Pandemic Innovation, Education (PIE)	
11	E81	Smart Indoor Home Garden Management using Internet of Things	Universiti Malaysia Perlis	Agriculture, Environmental and Renewable Energy (ARE)	
12	E88	Polysaccharides from mushroom by submerged culture fermentation for skin lightening application	Agensi Nuklear Malaysia	Biotechnology, Health and Chemicals (BHC)	



NATIONAL INNOVATION & INVENTION COMPETITION 2022










#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
13	E91	RenoCost	Universiti Teknologi MARA	Building, Construction and Materials (BCM)	
14	E79	IoT Based Smart Betta Fish Aquaponic Monitoring System with Fish Disease Prediction	Universiti Malaysia Perlis	Agriculture, Environmental and Renewable Energy (ARE)	
15	E83	MyCommhealth: Cloud-based mHealth Campaign Management System with Privacy Preserving Mechanisms and Healthcare Analytics	Universiti Teknikal Malaysia Melaka	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
16	E59	Synchronized Online Flipped Classroom: A 3-60 Approach	Universiti Teknologi MARA	Education (EDU)	
17	E21	Development of Translated questionnaire Malay Subjective Exercise Experience Scale (M-SEES) to measure mood related exercise	Universiti Teknologi MARA	Biotechnology, Health and Chemicals (BHC)	
18	E47	OME System 2.0	KV Batu Lanchang, KV Sultan Ahmad Shah, KV Tun Hussein Onn, KV Port Dickson, KV Butterworth	Education (EDU)	



# NATIONAL INNOVATION & INVENTION COMPETITION 2022









#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
19	E52	CAROTA TEMPURA : Nugget Based on Carrot Waste	Kolej Vokasional Datuk Seri Abu Zahar Isnin	Manufacturing Process, Machines and Equipment (MPE)	
20	E03	PROLUM Organic Hand Sanitizer: Promising Covid-19 Protector	Universiti Teknologi MARA	Biotechnology, Health and Chemicals (BHC)	
21	E32	Smart Portable Carbon Membrane for Helium Recovery	Universiti Malaysia Pahang	Agriculture, Environmental and Renewable Energy (ARE)	
22	E84	MyResearchAid: Technology-Enabled Companion for Research Design and Alignment	Universiti Utara Malaysia	Education (EDU)	
23	E07	Study on The Best Classification Method for an Intelligent Phishing Website Detector System (PSECURITY)	Universiti Teknologi MARA	ICT, Multimedia and Telecommunications, Electrical and Electronic (IME)	
24	E46	ConV Wheel Kits 2.0	SK Putrajaya Presint 11(1), SK (2) Petaling Jaya	Education (EDU)	
25	E36	INSTASPACE Module	Universiti Selangor	Education (EDU)	



NATIONAL INNOVATION & INVENTION COMPETITION 2022




#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
26	E57	ATOM : CLICK & MATHSUP	Kolej Matrikulasi Kelantan	Education (EDU)	
27	E41	Automatic Segmentation for Lettuce Growth Monitoring System using Image Processing Techniques	Universiti Tun Hussein Onn Malaysia	Agriculture, Environmental and Renewable Energy (ARE)	
28	E62	IoT-Based Power Quality Event Monitoring System (PQ-i)	Universiti Tun Hussein Onn Malaysia	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
29	E60	Plant Identification based on Leaf by Using Convolutional Neural Network (CNN)	Universiti Teknikal Malaysia Melaka	Agriculture, Environmental and Renewable Energy (ARE)	
30	E51	SOVO KIT: Kosa kata Bahasa Asing Beraudio	Universiti Pendidikan Sultan Idris	Education (EDU)	
31	E94	Street Art Reversible	Kolej Vokasional Kangar	Pandemic Innovation, Education (PIE)	





NATIONAL INNOVATION & INVENTION COMPETITION 2022



#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
32	E14	The QS-C in IR4.0 : Integrating Industry 4.0 (IR4.0) into Quantity Surveyors Competencies	Universiti Teknologi Malaysia and Universiti Teknologi MARA	Building, Construction and Materials (BCM)	


## BRONZE AWARD

#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
1	E65	AR Polimas Tour	Universiti Utara Malaysia, Politeknik Sultan Abdul Halim Mu'adzam Shah	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	
2	E64	Advance Technology in Mooting and Advocacy Learning (ATMAL): A New Norm	Universiti Utara Malaysia	Education (EDU)	



NATIONAL INNOVATION &  
INVENTION  
COMPETITION 2022



#	Code	Title	Affiliation	Sub-theme	Medal
<b>Category: STAF / PROFESSIONAL (E)</b>					
3	E25	ASK 4K 1N for SPP2013 Basic of Business Communication	Kolej Komuniti Penampang	Pandemic Innovation, Education (PIE)	
4	E70	Development of Prototype: Fish Drying Electronic Roof	Kolej Komuniti Kemaman, Universiti Malaysia Kelantan, Universiti Pendidikan Sultan Idris	ICT, Multimedia and Telecommunications , Electrical and Electronic (IME)	