

# EKSPOR REKACIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
1	Assoc. Prof. Ts. Dr. Irnis Azura Zakarya, Dr. Nor Anis Nadhirah Md Nasir, Somendiran Muniandy, Nur Adlina Mohd Hilmi, Ainin Sofiya Abd Rahman, Suganyah Raju	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	BIONITRO COMPOST	ONLINE	GOLD	GRAND AWARD 3RD PLACE
2	Assoc. Prof. Ts. Dr. Irnis Azura Zakarya, Dr. Nor Anis Nadhirah Md Nasir, Suganyah Raju, Somendiran Muniandy, Ainin Sofia Abd Rahman, Nur Adlina Mohd Hilmi	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	TeMo DECOMPOSER	ONLINE	GOLD	
3	DICKSON LING CHUAN HAO, ASSOC. PROF. DR. RAFIZA BINTI ABD RAZAK, ASSOC. PROF. DR. ZARINA BINTI YAHYA, PROF. DR. MOHD. MUSTAFA ALBAKRI BIN ABDULLAH, ROSNITA MOHAMED, TS. DR. SK MUIZ BIN SK ABD RAZAK, TS. DR. FAZDLIEL ASWAD BIN IBRAHIM, IR. MOKHZANI KHAIR BIN ISHAK	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Impregnated POBA Vs Coated POBA Artificial Aggregate for High-Strength Lightweight Application	ONLINE	GOLD	
4	Rosnita Mohamed, Assoc. Prof Rafiza Abd Razak, Prof. Ts. Dr. Mohd Mustafa Al Bakri Abdullah, Assoc. Prof Shayfull Zamree Abd Rahim, Dr. Ikmal Hakem A Aziz, Mrs. Nurul Aida Mohd Mortar and Dickson Ling Chuan Hao	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Potential of Early Age Alkali-Activated Slag for fast setting applications	ONLINE	GOLD	
5	Mr. Mohamad Fazzul Hafiezudin Abu Bakar, Dr. Nur Soleha Abdul Rahim, Ts. Dr. SK Muiz SK Abd Razak, Ts. Dr. Nurfadzillah Ishak, Ts. Dr. Muhammad Azizi Azizan, Dr. Nur Amierah Harun, Prof. Ir. Dr. Taksiah A. Majid, Assoc. Prof. Dr. Zarina Yahya	FKTA	UAS	AdenaPavo-L Concrete: Production of Lightweight Concrete utilizing Saga Seed Coarse Aggregates with improved Compressive Strength	PHYSICAL	GOLD	
6	DR. RAZI AHMAD, PROF. TS. DR. MOHD AZLAN MOHD ISHAK, DR. ALINA RAHAYU. DR. NUR NASULHAH KASIM, NUR RAHIMAH IBRAHIM	FKTA	Pusat Kecemerlangan Kajian Air dan Perkembangan Persekitaran Lestari (WAREG)	CO-PALM "A valuable fuel resources in co-gasification"	ONLINE	GOLD	
7	TS DR HJ UMAR BIN HJ KASSIM, DR HIJ ROZIAH BT RAMLI, NUR 'IZZAH SOLEHAH BT UMAR, NUR INSYIRAH HUSNA BT UMAR, NUR 'IRDINA MADIHAH BT UMAR.	FKTA	Pusat Kecemerlangan Kajian dan Perkembangan Persekitaran Lestari	BIO MULTI PURPOSE Organic repellent (BIO-MPOR)	ONLINE	GOLD	
8	Dr. Nur Liza Rahim, Mr. Muhammad Akmal Aiman Uzair, Ms. Roshazita Che Amat, Ts. Dr. Norlia Mohamad Ibrahim, Ms. Syakirah Afiza Mohammed, Prof. Ts. Dr. Mohd Mustafa Albakri Abdullah, Assoc. Prof. Ts. Dr. Norazian Mohamed Noor	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	FLASH CONCRETE	ONLINE	GOLD	
9	Mr. Duane Regen Anak Broster, Dr. Nur Soleha Abdul Rahim, Ts. Dr. SK Muiz SK Abd Razak, Ts. Dr. Muhammad Azizi Azizan, Ts. Dr. Nurfadzillah Ishak, Dr. Nur Amierah Harun, Prof. Ir. Dr. Taksiah A. Majid, Assoc. Prof. Dr. Rafiza Abd Razak	FKTA	UAS	COIXLAC-JL CONCRETE: High Compressive Strength Lightweight Concrete with Partial Replacement of Coix Lacryma-Jobi Seed (JTS)	PHYSICAL	SILVER	
10	Ir. Dr. Mustaqqim Bin Abdul Rahim, Siti Nor Amanina Binti Ramli, Assoc. Prof. Ts. Dr. Afizah Ayob	FKTA		Crubber Concrete	ONLINE	SILVER	

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11	Dr. Nor Faizah Bt Bawadi, Kee Kar Yao, Nur Syafika Bt Johan, Ahmad Faizal B Mansor, Ir. Dr. Mohd Faiz B Mohammad Zaki, Dr. Masyitah Bt Md Nujid, Siti Hasmah Bt A Hamid	FKTA		Kenaf As A Soil Stabilizer	ONLINE	SILVER	
12	Dr. Nur Anira Asyikin Hashim & Dr. Farahiyah Abdul Rahman	FKTA		FractureVision: A User-Friendly Graphical User Interface for Predicting Material Fractures	ONLINE	SILVER	
13	DR. RAZI AHMAD, NUR RAHIMAH IBRAHIM, MS. ANIDA YANTI ANI, PROF.TS. DR.MOHD AZLAN MOHD ISHAK	FKTA		PE-PALM "The Valuable Fuel Resource in Co-gasification"	ONLINE	SILVER	
14	Dr. Ilya Joohari	FKTA	Pusat Kecemerlangan Kajian dan Perkembangan Persekitaran Lestari	Hybrid Polymer-Modified Bitumen for Asphalt Pavement	ONLINE	SILVER	
15	Ts. Dr. Zul-Atfi Ismail, Prof. Dr. Ibrahim Motawa	FKTA		Building Information Modelling based Building Condition Assessment (BIM-BCA)	ONLINE	SILVER	
16	Ts Dr Nurul Akmam Naamandadin, Ts Dr SK Muiz Sk Abd Razak, Ir Ts Norhaizura Yahya, Ts Siti Nur Aishah Mohd Noor, Prof Ar Abdul Razak Sapian & Assoc. Prof Dr Sharifah Mazlina Syed Khuzzan Alhabshi	FKTA		COST MODELLING TOOL	PHYSICAL	SILVER	
17	Ts. Dr. Norlia binti Mohamad Ibrahim, Dr. Roshazita binti Che Amat, Dr. Nur Liza binti Rahim, Pn. Syakirah Afiza binti Mohammed, Ir. Dr. Mustaqqim bin Abdul Rahim, Nur Zakiah Anis binti Abdul Rahim, Mustakim Mukmin bin Budiman, Mohamad Firdaus bin Azman	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	SUSTAINABLE CONCRETE WITH WASTE STEEL WIRE FROM SCRAPPED TYRE	ONLINE	SILVER	
18	Assoc. Prof Ts.Dr.Irnis Azura Zakarya, Dr Nor Anis Nadhirah Md Nasir, Dr Saadi Bin Ahmad Kamaruddin, Nur Adlina Mohd Hilmi, Ainin Sofia Abdul Rahman	FKTA	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	QUA-PAF (AQUATIC PLANT BASED ANIMAL FEED)	ONLINE	SILVER	
19	Ts Dr Fazdliel Aswad bin Ibrahim, Muhammad Afnan bin Arzahari, Wong Boying, Sk Muiz bin Sk Ab Razak, Norrazaman Zaiha bin Zainol	FKTA		Application of XR Apps as Alternative Promotion Strategy for Housing Sector	PHYSICAL	SILVER	
20	Saleh Ahmed Mohamed Alhaj Ali, Ir Dr Mohd Zulham Affandi Mohd Zahid, Ts Dr Sk Muiz Sk Abd Razak, Assoc. Prof. Dr Rafiza Abd Razak, Assoc. Prof. Dr Zarina Yahya, Ir Dr Mohd Asri Ab Rahim, Mr Md. Hadli Abu Hassan, Ir Mokkhzani Khir Ishak	FKTA	Pusat Kecemerlangan Kajian Air dan Perkembangan Persekitaran Lestari (WAREG)	ULTRA HIGH PREFORMANCE FIBER REINFORCEMENT CONCRETE FOR FIRE DAMGE CONCRETE COLUMN REPAIR AND REHABILITATION	ONLINE	SILVER	

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21	Sr. Dr. Norsyakilah Romeli	FKTA	Pusat Kecemerlangan Pesawat Tanpa Juruterbang (UAS)	MODEL BASED ESTIMATION (M-BEST) TOOLS FOR BUILDING CONSTRUCTION COST PREDICTION ACCURACY	ONLINE	SILVER	
22	TS DR NURFADZILLAH ISHAK, TS DR MUHAMMAD AZIZI AZIZAN, DR NUR SOLEHA ABDUL RAHIM, DRNUR AMIERAH HARUN, TS DR SK MUIZ SK ABDUL RAZAK, PROF. IR TS. DR. HAZRY DESA, ASSOC. PROF. EMMA MARINIE AHMAD ZAWAWI	FKTA	Pusat Kecemerlangan Pesawat Tanpa Juruterbang (UAS)	BIM-BASED RISK STRATEGIES FRAMEWORK FOR BUILDING REFURBISHMENT PROJECT PERFORMANCE IMPROVEMENT	ONLINE	SILVER	
23	Ts. Khairunnisa Binti Muhamad, Ainaa Syafiqah Binti Khairuddin	FKTA		DOLOMIMTE PERVIOUS CONCRETE PAVEMENT	PHYSICAL	BRONZE	
24	Dr. NUR AMIERAH BINTI HARUN	FKTA	Pusat Kecemerlangan Pesawat Tanpa Juruterbang (UAS)	FRAMEWORK FOR CONSTRUCTION WASTE SECONDARY MARKET IN MALAYSIA	ONLINE	BRONZE	
25	Jefri Efendi Mohd Salih , Khong Chee Leong , Ropidah Ahmad	FKTE	CIRAS	FARMO-V12 : Robotic Sprayer for Fruit Orchard	PHYSICAL	GOLD	BEST INVENTION AWARD (FOODTECH & AGRICULTURE TECHNOLOGY)
26	Jefri Efendi Bin Mohd Salih , Ropidah Ahmad	FKTE	CIRAS	Farm Assist Robot for Multi Operation - FARMO V6	PHYSICAL	GOLD	
27	Dr. Azralmukmin Azmi, Assoc. Prof. Dr. Mohammad Faridun Naim Tajuddin, Mohd Fayzul Mohammed, Dr. Nur Hafizah Ghazali, Azralmukmin Azmi, Kamarul Amin Kamarudin	FKTE	CERE	SolCurve: Seamless Remote PV System Monitoring	PHYSICAL	GOLD	BEST INVENTION AWARD (DIGITAL TECHNOLOGY, ELECTRONICS & IOT's)
28	Syauqina Akmar Mohd-Shafri, Ts. Dr. Tiang Tow Leong, Dr. Ang Qian Yee, Ts. Dr. Choo Jun Tan, Assoc. Prof. Ir. Dr. Dahaman Ishak, Mohd Saufi Ahmad, Liew Chung Peng	FKTE		Fast Prediction of Optimum Design for Surface-Mounted PMSM	ONLINE	GOLD	
29	Dr. Muhd Hafizi Idris, Assoc. Prof. Dr Mohd Rafi Adzman, Melaty Amiruddin	FKTE	CERE	W-AIFaMS - Wireless Artificial Intelligence Based Fault Monitoring System	PHYSICAL	GOLD	
30	Assoc Prof Dr Ammar Bin Zakaria, Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin, Dr. Syed Muhammad Mamduh Bin Syed Zakaria	FKTE	CEASTech	iTrack360	PHYSICAL	GOLD	

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31	NIK AHMAD KAMIL ZAINAL ABIDIN, DR NORKHARZIANA NAYAN, DR NURSABIRAH JAMEL, AZUWA ALI, FATIN FARAH FARHANA BT ZALNAL,	FKTE	CERE	Piezoelectric Experimental Kit for Renewal Energy Harvester Evaluation (VibrantEdu)	PHYSICAL	GOLD	
32	Nor Nabihah Bt Zaini Nabila Amira Bt Mohammad Zabid Jimirafizi Jamil Assoc Prof Ir Ts Dr Ahmad Faizal B Salleh Assoc Prof Dr Zunaida Zakaria	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	SMART AUTOMATIC SCORING DETECTOR FOR WTF TAEKWONDO SUIT	ONLINE	GOLD	
33	Hwang Yong Jia, Ir. Ts. Dr. Wooi Chin Leong, Dr. Hadi Nabipour Afrouzi, Assoc. Prof. Ir. Ts. Dr. Syahrin Nizam bin Md, Assoc. Prof. Dr. Mohd Riduan bin Ahmad, Tang Jia Wen, Dr. Leow Wai Zhe	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Development of Very High Frequency Interferometer Antenna Systems for Lightning Discharge Movement Investigation	ONLINE	GOLD	
34	Emilia Annisha binti Shaffie, Baseemah bt Mat Jalaluddin, Mohd Rizal bin Manan, Dr. Liew Hui Fang, Diyya Hidayah binti Abdul Rahman, Nur Irwany binti Ahmad, Norhanisa binti Kimpol, Junaidah Ali Mohd Jobran	FKTE		Innovative Wearable Technology For Visually Impaired People	ONLINE	GOLD	
35	Assoc. Prof. Dr Ammar Bin Zakaria, Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin, Dr. Syed Muhammad Mamduh Bin Syed Zakaria, Miss Priyaa Darshinie Chanthira Sakaran, Mr Devandran Krishnan, Ts. Dr. Norazian Mohamed Noor	FKTE	CEASTech	AirSens360	PHYSICAL	GOLD	
36	Roejhan bin Md Kawi Ahmad Khairuddin M. Ariff Zainab Binti Razali Shuhaimi Bin Sulaiman	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	DEVELOPMENT OF CNC MILLING MACHINE FOR PCB FABRICATION	ONLINE	GOLD	
37	Ir. Dr. Nor Hanisah Baharudin, Ir. Ts. Tunku Muhammad Nizar Bin Tunku Mansur, Prof. Madya Ir. Dr. Rosnazri Bin Ali, Mohd Syahril Noor Shah, Ts. Dr. Hana Abdul Halim, Muhammad Ariff Haikal Bin Ridzwan, Aini Syahida Bt Mohd Shaizad	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	PROTOTYPE DEVELOPMENT OF INTEGRATED DISTRIBUTION STATIC SYNCHRONOUS COMPENSATOR INTO GRID-CONNECTED SOLAR PV SYSTEM (GCPV-DSTATCOM)	ONLINE	GOLD	
38	Dr. Nurul Syahirah Binti Khalid, Prof. Madya Dr. Shazmin Aniza binti Abdul Shukur, Ts. Ismail Ishaq Bin Ibrahim, Dr. Sukhairi bin Sudin	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Feature Fusion of Non-homogenous Sensors for Internal Fruits Inspection	ONLINE	GOLD	
39	Ir.Ts.Dr. Ahmad Zaidi Abdullah, Assoc.Prof. Ts. Dr. Baharuddin Ismail, Prof. Ir. Ts. Dr. Muzamir Isa, Assoc. Prof. Ir.Ts.Dr. Syahrin Nizam Bin Arshad & Ts. Nurhafiza Azizan	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Energy Harvesting Improver for Photovoltaic (PV) Rooftop System using passive Cooling Technique	ONLINE	GOLD	
40	Assoc. Prof.. Ts. Dr. Mohamad Nur Khairul Hafizi Rohani Dr. Afifah Shuhada Rosmi Ms. Nur Dayini Roslizan Assoc. Prof. Dr. Mohd Aminudin Jamlos Assoc. Prof. Ts. Dr Baharuddin Ismail	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Ultra High Frequency Sensor for Partial Discharge Detection based on Hilbert Fractal Model	ONLINE	GOLD	

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41	Ir. Ts. Tunku Muhammad Nizar Bin Tunku Mansur, Prof. Madya Ir. Dr. Rosnazri Bin Ali, Prof. Madya Ts. Dr. Baharuddin Bin Ismail, Ir. Dr. Nor Hanisah Binti Baharudin, Ts. Dr. Kumuthawathe A/P Ananda-Rao, Shukur Bin Abdullah, Mohd Azlizan Bin Moh Adib	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	INTEGRATED DC POWER MODULE SYSTEM FOR DC MICROGRID APPLICATIONS	ONLINE	GOLD	
42	Yazhar bin Yatim, Aifaa Nazura binti Amir Wardi, PM Dr. Shamshul Bahar bin Yaakob, Dr. Nurhakimah binti Mukhtar, Abdul Rahim bin Abdul razak	FKTE	CERE	UPS Switching System with PV Grid-Connected	PHYSICAL	GOLD	
43	Muhammad Khalid bin Walid, Muhammad Hariki bin Muhammad Roslan, Muhammad Hilman Hafiz bin Habibullah, Ainul Balqis Wirdahayu binti Zamri, Sureendra Naidu a/l Sathasivam, Assoc. Prof. Dr. Shazmin Aniza binti Abdul Shukur	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Portable Health Monitoring System	ONLINE	GOLD	
44	Muhammad Azry bin Mukhairi, Mohd Rizal bin Manan, Baseemah binti Mat Jalaluddin, Roejhan bin Md Kawi, Diyya Hidayah binti Abd Rahman, Shuhaimi bin Sulaiman, Mohd Nadzrin bin Mohamad Radzi	FKTE	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Text to Braille Code Translator	ONLINE	GOLD	
45	Prof. Ir. Ts. Dr. Abu Hassan Abdullah (Team Leader), Assoc. Prof. Dr. Fathinul Syahir Ahmad Saad, Dr Siti Kartini Enche Ab. Rahim, Dr Kamarul Aizat Abdul Khalid, Dr Sukhairi Sudin, Dr. Khairul Ali Hassan, Dr Juraini Zainol Abidin & Mr. Mohd Hajazi Mustafa	FKTE	INSAT	River Water Quality Monitoring using Sensory System and IoT (RiMON)	ONLINE	GOLD	
46	Dr. Mardianaliza Othman, Prof. Ts. Dr Muzamir Isa, Assoc. Prof. Ts. Dr. Baharuddin Ismail, Ir. Ts. Dr. Ahmad Zaidi Abdullah , Assoc. Prof. Ir. Ts. Dr. Syahrudin Nizam Bin Md Arshad@Hashim	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Performance Analysis for 33 kV Porcelain Insulator String Based on RTV Coating	ONLINE	GOLD	
47	Ts. Dr. Masturah Tunnur Mohamad Talib, Assoc. Prof. Dr. Mohd Hafiz Fazalul Rahiman, Assoc. Prof. Dr. Latifah Munirah Kamaruddin, Assoc. Prof. Dr. Ammar Zakaria, M.S.M. Abdullah & Dr. Nurul Syahirah Khalid	FKTE	Pusat Kecemerlangan Sensor Teknologi Termaju (CEASTech)	Enhancing The Performance Of Radio Tomographic Imaging For Human Localization In Outdoor Space	ONLINE	GOLD	
48	Dr. Bukhari Ilias, Muhammad Ammar Asyraf Bin Che Ali, PM Dr Norasmadi Abdul Rahim, PM Dr Shazmin Aniza Abdul Shukur, Prof Dr Abdul Hamid Adom & Mohd Al Haffiz Saad	FKTE		Artificial Stingless Bee Hive monitoring Using IoT System on Developing Colony	PHYSICAL	SILVER	
49	Yazhar bin Yatim, Muhammad Zakwan bin Mohamad Zairozi, Fahisal bin Abdullah, Mohd Hazri bin Che Nadzir & Mohd Saufi bin Ahmad	FKTE	CERE	Dual Axis Chronological Solar Tracking System	PHYSICAL	SILVER	
50	Ir.Ts.Dr. Mohd Zamri bin Hasan, Assoc.Prof. Ts. Dr. Ahmad Kadri bin Junoh, Ts.Dr. Wan Zuki Azman bin Wan Muhamad, Dr. Nor Hazadura binti Hamzah, Raguvaran Ravichandran.	FKTE		The Classification of Noise Isolation Index for Vehicle Acoustical Comfort	ONLINE	SILVER	

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51	Dr. Sukhairi bin Sudin , Muhammad bin Ismail, Zulfa Husna bin Ahamad Suhaimi , Davendren A/L Takchinamoorthy , Muhammad Nazeef Bin Saiful Jefri ,Leong Zi Cong ,Dr Khairul ,Dr nurul Syahirah , PM Dr Fathinul Syahir	FKTE	Pusat Kecemerlangan Sensor Teknologi Termaju (CEASTech)	MySRM (Malaysia Smart Recycle Machine )	ONLINE	SILVER	
52	Nordiana binti Shariffudin, Tengku Nur Ain Salsabila binti Tengku Azman, Dr. Nurul Syahirah binti Khalid, Khairul Fazizul bin Mat Dris, Zanhassida binti Md Isa, Ir. Ts. Dr. Mohd Zamri bin Hasan & Ain Izzati binti Ilias	FKTE		Early Detection of Decay In Perishable Food	ONLINE	SILVER	
53	Mohd Nursahman bin Mohd Razali, Baseemah binti Mat Jalaluddin, Mohd Rizal bin Manan, Dr Liew Hui Fang, Nur Irwany binti Ahmad, Diyya Hidayah bt Abdul Rahman, Norhanisa binti Kimpol, Junaidah Ali Mohd Jobran	FKTE		Wireless Meter With Theft Monitoring And Control System	ONLINE	SILVER	
54	Surina Binti Mat Suboh, Nurul Afiqah Nabilah Binti Zainudin, Mohd Zamri Bin Hasan	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	A comparative study of MPC and PID control for maximizing wind energy extraction in wind turbine application	ONLINE	SILVER	
55	Ts. Dr. Siti Marhainis Othman, Julida A/P Nai Let, Khoo Shen Wayne, Leong Zi Cong, Dr Mohd Nasir Ayob, Ts. Dr. Siti Nurul Aqmariah Mohd Kanafiah, PM. Dr. Norasmadi Abdul Rahim	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	IoT Based Smart Betta Fish Aquaponic Monitoring system with fish disease prediction	ONLINE	SILVER	
56	MIOR MUHAMMAD FIRDAUS MOHD FAUZI, TS. DR. ABDUL HALIM ISMAIL, DR. MOHD NASIR AYOB, DR. HASSRIZAL HASSAN BASRI, DR. MUHAMAD SAFWAN MUHAMAD AZMI, PROF. MADYA DR. MOHD SANI MOHAMAD HASHIM	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	WEBot: An Automated Waste Collector Robotic Platform	ONLINE	SILVER	
57	Muhammad Nadhir Bin Rosli(191092334), Dr. Norkharziana Mohd Nayan, Kumaran A/L Selvaraja (201090974), Ooi Zhi Xian(191092353), En.Abdul Rahim Abdul Razak, Assoc. Prof. Dr. Syahrul Ashikin Azmi, Dr. Nurhakimah Mohd Mukhtar.	FKTE	CERE	Pico-Hydro Electrical Generation System for Rural Area and Indoor Applications	PHYSICAL	SILVER	
58	Dr. Hasimah Ali (K), Nazlee Azmeer Massuan, Ahmad Firdaus Ahmad Zaidi, Tengku Sarah Tengku Amran, Ts. Dr. Siti Nurul Aqmariah Mohd Kanafiah, Ts. Dr. Marhainis Othman, Dr Mohd Shuhanaz Zanar Azalan, Dr Mohamed Elshaikh	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	3D RECONSTRUCTION HYPERBOLIC IMAGE OF BURIED OBJECT USING GPR B-SCAN IMAGE FOR MAPPING APPLICATION	ONLINE	SILVER	
59	Ts. Dr. Siti Marhainis Othman, Devendiranath.K, Ts. Dr. Mohd Saifizi Saidon, Dr. Hassrizal Hassan Basri, Ts. Dr. Siti Nurul Aqmariah Mohd Kanafiah, Ts. Ahmad Firdaus Ahmad Zaidi, Dr. Mohd Shuhanaz Zanar Azalan, Mukhlis Kamarrudin	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Optimization of PID Controller for Electro-Hydraulic Actuator System using Gravitational Search Algorithm (GSA)	ONLINE	SILVER	
60	TS DR LIEW HUI FANG , Ts. Dr. MUHAMMAD NAUFAL BIN MANSOR, TS JUNAIDAH BINTI ALI MOHD JOBRAN, TS NORHANISA BINTI KIMPOL, Ts Dr. MUHAMMAD IZUAN FAHMI BIN ROMLI, Ts NUR IRWANY BINTI AHMAD, BASEEMAH BINTI HI MAT JALALUDDIN, Ts DIYYA HIDAYAH BT ABD RAHMAN, PM Ts Ir Dr ROSEMIZI BIN ABD RAHIM, LEE JUN RONG	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	IMPLEMENTATION OF SMART RFID CHARGING SYSTEM BASED RASPBERRY PI FOR LOW VOLTAGE APPLICATIONS	ONLINE	SILVER	

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61	Ts. Dr. Siti Nurul Aqmariah Bt Mohd Kanafiah, Ts. Dr. Siti Marhainis Bt Othman, Dr. Hasimah Ali, Assoc. Prof. Dr. Shazmin Aniza Bt Abdul Shukor, Wan Nur Atirra Bt Wan Ibrahim, Prof. Dr. Syafinaz Bt Amin-Nordin, Assoc. Prof. Eusni Rahayu Bt Mohd Tohit, Ts. Ahmad Firdaus Bin Ahmad Zaidi	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Automated Recognition System for Iron & Normal Red Blood Cells in Human Body	ONLINE	SILVER	
62	Jia-Wen Tang, Ir. Ts. Dr. Chin-Leong Wooi, Ir. Dr. Wen-Shan Tan, Dr. Hadi Nabipour Afrouzi, Assoc. Prof. Ir. Ts. Dr. Syahrin Nizam bin Md Arshad@Hashim, Ts. Dr. Muzaidi Othman, Dr. Wai-ZheLeow	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Optimized Allocation of Lightning Protection System Using PSOGSA	ONLINE	SILVER	
63	Ts. Dr. Kumuthawathe Ananda-Rao, Mohamad Syafiq Bin Hamsani, Dr. Steven Tanisellass, Ir. Tunku Muhammad Nizar Tunku Mansur, Dr. Afifah Shuhada Rosmi & Ir. Dr. Nor Hanisah Baharuddin	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	IOT BASED SMART ENERGY METER	ONLINE	SILVER	
64	TS DR LIEW HUI FANG , Ts. Dr. MUHAMMAD NAUFAL BIN MANSOR, TS JUNAIDAH BINTI ALI MOHD JOBRAN, TS NORHANISA BINTI KIMPOL, Ts Dr. MUHAMMAD IZUAN FAHMI BIN ROMLI, Ts NUR IRWANY BINTI AHMAD, BASEEMAH BINTI HJ MAT JALALUDDIN, Ts DIYYA HIDAYAH BT ABD RAHMAN, PM Ts Ir Dr ROSEMIZI BIN ABD RAHIM, NIK MOHAMAD	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Highly Efficient Hybrid Kinetic-Solar Energy Harvesting System	ONLINE	SILVER	
65	DR. AFIFAH SHUHADA BINTI ROSMI, HAZWAN BIN HAZMAN, MUHAMMAD TAUFIQ BIN ALIAS, NURSYAZWANA BINTI MOHAMMAD NAZON, PROF. MADYA DR. MOHAMMAD NUR KHAIRUL HAFIZI BIN ROHANI,	FKTE		PORTABLE WIND ENERGY HARVESTING	ONLINE	SILVER	
66	Dr. Aimi Salihah Binti Abdul Nasir, Hanim Suraya Binti Mohd Mokhtar, Ooi Wei Heng, Muhammad Afiq Nazmi Bin Tun Suhaimi, Ts. Erdy Sulino Bin Mohd Muslim Tan,	FKTE	SERC	Deep-Harumanis: An Intelligent System for Monitoring Nutrient Content based Mango Leaves	PHYSICAL	SILVER	
67	Naouras Salleh, Ts Dr Nursabirah Jamel, Dr Ilani Md Nawi (UTP), Aimi Nurfisya	FKTE		Screen-printed paper-based piezoresistive strain sensor	PHYSICAL	SILVER	
68	Ts. Sofi bin Yahya, Ahmad Amsyar bin Ibrahim, Ir. Ts. Mohd Rudzuan bin Mohd Nor, Ir. Ts. Wan Mohd Nooriman bin Wan Yahya, En. Mohammad Fauzi bin Mahmud	FKTE		IOT BASED INTELLIGENT AIR-MONITORING ROBOT: AM-BOT	ONLINE	SILVER	
69	TS DR LIEW HUI FANG , Ts. Dr. MUHAMMAD NAUFAL BIN MANSOR, TS JUNAIDAH BINTI ALI MOHD JOBRAN, TS NORHANISA BINTI KIMPOL, Ts Dr. MUHAMMAD IZUAN FAHMI BIN ROMLI, Ts NUR IRWANY BINTI AHMAD, BASEEMAH BINTI HJ MAT JALALUDDIN, Ts DIYYA HIDAYAH BT ABD RAHMAN, PM Ts Ir Dr ROSEMIZI BIN ABD RAHIM, MUHAMMAD	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	MONITORING AND CONTROLLING ADVANCE WIRELESS POWER TRANSFER SYSTEM PERFORMANCE VIA IOT	ONLINE	SILVER	
70	TS DR LIEW HUI FANG , Ts. Dr. MUHAMMAD NAUFAL BIN MANSOR, TS JUNAIDAH BINTI ALI MOHD JOBRAN, TS NORHANISA BINTI KIMPOL, Ts Dr. MUHAMMAD IZUAN FAHMI BIN ROMLI, Ts NUR IRWANY BINTI AHMAD, BASEEMAH BINTI HJ MAT JALALUDDIN, Ts DIYYA HIDAYAH BT ABD RAHMAN, PM Ts Ir Dr ROSEMIZI BIN ABD RAHIM, COSTANTINE BIN	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	DEVELOPMENT OF AN ADVANCED CHARGING CONTROL STRATEGY SYSTEM FOR EV BATTERY	ONLINE	SILVER	

# EKSPLO REKACIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
71	ALLYA SHAHIRA BINTI AHMAD ZAINI, MUHAMAD ALI BIN MOHD YUSOFF, MUHAMMAD FIRDAUS BIN MUHAMAD MUKHTAR, RHUSHARHVIN DHARSHA NATH A/L NYANAMANICKAM & WAN MUHAMAD AQLI BIN WAN AZMAN.	FKTE		SMART OIL COLLECTOR WITH A SOAP MAKER	ONLINE	SILVER	
72	Nordiana binti Shariffudin, Ir. Mohd Rudzuan bin Mohd Nor, Ir. Wan Mohd Nooriman bin Wan Yahya, Ts. Sofi bin Yahya, Mohammad Fauzi bin Mahmud, Ts. Norlaili binti Saad, Ts. Mohd Asrul bin Md Saad & Khairul Fazizul bin Mat Dris	FKTE		In-door Hydroherbs Monitoring System Using IoT	ONLINE	SILVER	
73	DR. HARYATI BINTI JAAFAR, VIKNASHALAN A/L SIVA KUMAR, DR. HIDAYANI BINTI JAAFAR	FKTE		DEVELOPMENT OF AN UNDERWATER REMOTELY OPERATED VEHICLE IN SMALL SCALE APPLICATION	ONLINE	SILVER	
74	Ts. Junaidah binti Ali Mohd Jobran, Muhammad Amar Hanafi Bin Jamalullail, Dr. Liew Hui Fang, Ts. Norhanisa binti Kimpol, Diyya Hidayah binti Abd. Rahman, Habibah binti Hj. Mokhtaruddin, Roejhan bin Md. Kawi	FKTE		Piezoelectric Harvesting Tiles For Low Power Consumption	ONLINE	SILVER	
75	Safwan Hisham, Assoc. Prof. Dr. Shah Fenner Khan Mohamad Khan, Dr. Kamarulzaman Kamarudin	FKTE		String and Warping Detection (SWaD) For 3D Printer	ONLINE	SILVER	
76	DR. HARYATI BINTI JAAFAR , IZZ AZMIL IZHAM BIN AZLAN, DR. HIDAYANI BINTI JAAFAR	FKTE		WATER QUALITY MONITORING SYSTEM WITH DUAL AXIS SOLAR TRACKING	ONLINE	SILVER	
77	AHMAD BAIHAQI BIN CHE MOHD RUZLI, MARLIA MARZUKI BIN ABDULLAH, SAW DI WEN, MUHAMMAD THAQIF BIN NOR ASHIMI, MUHAMMAD ADIB HIFZUDDIN BIN HARUN, & DR. MUHAMAD KHAIRUL BIN ALI HASSAN	FKTE	Pusat Kecemerlangan Sensor Teknologi Termaju (CEASTech)	REAL-TIME SMART PARKING SYSTEM APPLICATION	ONLINE	SILVER	
78	Roejhan bin Md Kawi Mohammad Amirul Bin Nazeri Mohd Khairul Anuar Mohd Nor Mohd Rizal Manan Zanhassida Binti Md Isa	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	CONTROLLED GRASS CUTTER USING REEL ROTARY BLADE	ONLINE	SILVER	
79	Dr. Nurul Syahirah Binti Khalid , Mr. Ahmad Amiruddin bin Kamarudin, Ts. Ismail Ishaq Bin Ibrahim, Ir. Ts. Dr. Mohd Zamri Bin Hasan, Prof. Madya Dr. Shazmin Aniza binti Abdul Shukur, Mrs. Humairah binti Mansor, Ts. Dr. Masturah Tunnur Mohamad Talib, Mrs. Nordiana binti Shariffudin	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	CARBON MONOXIDE (CO) LEVEL WARNING SYSTEM (CO-LEWS)	ONLINE	SILVER	
80	Ir. Ts. Mohd Rudzuan Mohd Nor, Mr. Waiz Fitri bin Azahari, Mr. Mohammad Fauzi bin Mahmud, Ts. Norlaili binti Saad, Ts. Sofi bin Yahya, Mdm Nordiana binti Shariffudin, Ir. Ts. Wan Mohd Nooriman Wan Yahya & Ts. Mohd Asrul bin Md Saad	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Remotely Controllable Extension Plug using IoT	ONLINE	SILVER	



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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
81	TS. DR. SITI MARHAINIS OTHMAN, TS. DR. SITI NURUL AQMARIAH MOHD KANAFIAH, DR. HASIMAH ALI, MUHAMAD NAQIB BIN MOHD SHUKRI, MUHAMMAD SYAAMIL BIN MOHAMAD NAWI, FARID AZHARI BIN NORZAIDI, GODREY AMOS SUNANG ANAK DANGKAN@DUNCAN, ADLI ISKANDAR BIN BAIDULZAMAN	FKTE		Smart Parcel Sorting For KKTF Pfi2 Residential College Hub	ONLINE	SILVER	
82	Muhammad Firdaus bin Azhar, Yazhar bin Yatim, Mohd Rizal bin Manan, PM Dr. Mohammad Faridun Naim bin Tajuddin, Dr. Azralmukmin bin Azmi & Mohd Fayzul bin Mohammed	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	Low-Cost PV Module Hotspot Prevention Detector	ONLINE	SILVER	
83	Ir.Ts.Dr. Mohd Zamri bin Hasan, Assoc.Prof.Ts.Dr. Ahmad Kadri bin Junoh, Ts.Dr.Wan Zuki Azman bin Wan Muhamad, Alezar binti Mat Ya'acob, Selvinthiran Dars.	FKTE		The Clustering of The Level of Acoustics for Forming Noise Isolation Index in Vehicle Cabin	ONLINE	SILVER	
84	Roejhan Md Kawi, Muhammad Izzuddin Yahya, Muhammad Aizat Abu Bakar, Mohd Rizal Bin Manan, Diyya Hidayah Abd Rahman,	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	AUTOMATION LAWN MOWER FOR GARDENING	ONLINE	SILVER	
85	DR. NURUL SYAHIRAH KHALID , AHMAD HASIF IZZUDEEN BIN AHMAD TAZUDIN, MUHAMMAD AZIZI HAFIZI BIN AHMAD NASIR, DANIAL ASYMAWI BIN ZOLKAPLI, SRITARAN ELAMKOVON, SYED YUSUF BIN SYED ROFLI	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	MEDICINE DELIVERY ROBOT (M-DER)	ONLINE	SILVER	
86	Mr. Ahmad Aqil Syazwan Bin Rozali, Mr. Nor Shaifudin Bin Abdul Hamid	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	SOLAR BASED IRRIGATION SYSTEM FOR SMALL SCALE FARMING	ONLINE	SILVER	
87	MOHD WAFIUDDIN BIN YAHYA PUTERI UMMI UMAIRA BINTI HENDRI JEFFERI NOOR SHAZLIZA BINTI ZAKARIA MOHD NAZRI BIN ABU BAKAR SHAHRUL FAZLY BIN SULAIMAN	FKTE	Pusat Kecemerlangan Tenaga Boleh Diperbaharui (CERE)	DESIGN AN AUTOMATIC HAND SANITIZER USING ARDUINO	ONLINE	SILVER	
88	PATTHAVEE A/L HEM, DR.MUHAMMAD NAUFAL BIN MANSOR	FKTE	Pusat Kecemerlangan Pengkomputeran Termaju	DEVELOPMENT OF CNC PLOTTER WITH ARDUINO	ONLINE	BRONZE	
89	Intan Azirah Syarina Binti Shamsul Azmi, Mohamad Khairuddin Bin Abdul Aziz, Mohd Anas Hakimi Bin Shamsulbaharin, Murad Muhammad Hasan Salih Al Walidi, Dr. Mohd Nasir Ayob & Dr. Hassrizal Hassan Basri.	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	INFANT ALERT & AIR MONITORING SYSTEM TO AVOID ABANDONMENT IN VEHICLE	ONLINE	BRONZE	
90	Ir.Ts.Dr. Mohd Zamri bin Hasan, Assoc.Prof.Ts.Dr. Ahmad Kadri bin Junoh, Ts.Ismail Ishaq bin Ibrahim, Nordiana binti Shariffudin, Nur Sabrina binti Md Noorpi, Mohamad Amirul Helmi bin Hassim	FKTE		Vibration Monitoring System for Car Components Application	ONLINE	BRONZE	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
91	Roejhan bin Md Kawi Izzul Syimir Bin Azhan Zainab Binti Razali Mohd Rizal Bin Manan Shuhaimi Bin Sulaiman	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	AUTOMATION FOR SMART AGRICULTURE LINEAR RAIL SYSTEM USING ARDUINO	ONLINE	BRONZE	
92	Ir.Ts.Dr. Mohd Zamri bin Hasan, Dr. Nurul Syahirah binti Khalid, Muhammad Nabil bin Sabar Abdullah	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	CARBON MONOXIDE (CO) REAL TIME MONITORING SYSTEM INTEGRATED WITH IOT	ONLINE	BRONZE	
93	Norlaili bt Saad, Muhd Afiq Daniel bin Mat Daud, Rahaton Azirah bt Ramli, Maizatul Nurul Bariah bt Ahmad, Sharifah Nurul Husna bt Syed Hanapi, Norazila bt Shoib, Farah Hanan bt Mohd Faudzi	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Soil Moisture Monitoring System Using GSM	ONLINE	BRONZE	
94	Ir.Ts.Dr.Mohd Zamri bi Hasan, Assoc.Prof. Ts.Dr.Ahmad Kadri bin Junoh, Ts. Ismail Ishaq bin Ibrahim, Ts. Dr. Liew Hui Fang, Dr. Ahmad Shukri bin Fazil Rahman, Cheah Kha Wei.	FKTE		DESIGN THE IOT AIR AND NOISE POLLUTION MONITORING SYSTEM	ONLINE	BRONZE	
95	FAHISAL BIN ABDULLAH, MOHAMAD MUZZAMMIL BIN MUSTAFA KAMAL, SITI NORSAFURA BT ABDULLAH NORHAIRI, MUHAMMAD SHAGIR HAKIM BIN MOHAMED SHAH, MUHAMMAD SYAFIQ BIN SHEIK AZMI,	FKTE		SOFT ROBOT EARTHWORM RESCUE (SRER)	ONLINE	BRONZE	
96	Roejhan bin Md Kawi, Chong Pei Ling, Mohd Rizal bin Manan, Diyya Hidayah Binti Abd Rahman, Mohd Hazri B Che Nadzir,	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	Gas Leakage Detecting Robot Vehicle with IoT Monitoring	ONLINE	BRONZE	
97	Ilavarasan A/L Jaya Raj, Noor Shazliza Binti Zakaria, Mohd Wafiuddin Bin Yahya, Diyya Hidayah Binti Abdul Rahman, Norhanisa Binti Kimpol, Habibah Binti Haji Mohktaruiddin & Nurhafiza Binti Azizan.	FKTE		WOMEN SAFETY ALARM SYSTEM	ONLINE	BRONZE	
98	Dr. Muhammad Nazrin Shah Bin Shahrol Aman, Tan Zong Ren	FKTE	Pusat Kecemerlangan Kecerdikan Robotik (CofRI)	SNACK DISPENSER MACHINE WITH CLOUD BASED STOCK MONITORING USING RASPBERRY PI	ONLINE	BRONZE	
99	DR AFIFAH SHUHADA BINTI ROSMI, MUHAMMAD AFIQ BIN ABD AZIZ, KHALISH NAJMI BIN KAMARUL BADRI, MOHD ARIF BIN MOHD ZAIN, ASSOC PROF DR MOHAMAD NUR KHAIRUL HAFIZI BIN ROHANI, DR AIMI SALIHAH BINTI ABDUL NASIR & DR KUMUTHAWATHE A/P ANANDA-RAO	FKTE		REAL-TIME HEALTH MONITORING SYSTEM	ONLINE	BRONZE	
100	Rahaton Azirah Ramli, Athachai Saiprawat a/l Kiang, Ts. Maizatul Nurul Bariah Ahmad, Ts. Norlaili Saad, Ts. Sharifah Nurul Husna Syed Hanapi, Norazila Shoib & Farah Hanan Mohd Faudzi	FKTE	Pusat Kecemerlangan Kepintaran Robotik & Sistem Berautonomi (CIRAS)	ULTRASONIC ANIMAL REPELLENT DEVICE	ONLINE	BRONZE	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
101	ASSOC. PROF. IR. DR. SOHIFUL ANUAR ZAINOL MURAD, PROF. IR. TS. DR. R BADLISHAH AHMAD, PROF. DR. ZULKARNAY ZAKARIA, ASSOC. PROF. IR. TS. DR. MOHD RASHIDI CHE BESON, ASSOC. DR. SHUHAIZAR DAUD	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	IoT BASED SISTEM MASJID PINTAR (i-SisMAP)P	ONLINE	GOLD	
102	Assoc Prof Dr Latifah Munirah Binti Kamarudin, Assoc Prof Dr Ammar Zakaria, Dr Syed Muhammad Mamduh Syed Zakaria, Dr. Intan Kartika Kamarudin, Prof. Dr. Sazzli Shahlan Kasim, Dr Muhammad Amin Ibrahim	FKTEN	CEASTech	iHealth360: AI-enabled Contactless Vital Sign Monitoring	PHYSICAL	GOLD	
103	Dr. Syed Muhammad Mamduh Bin Syed Zakaria, Assoc. Prof. Dr Ammar Bin Zakaria, Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin	FKTEN	CEASTech	iGIS	PHYSICAL	GOLD	
104	ASSOC. PROF. TS. DR. ZULKIFLI BIN HUSIN, MUHAMMAD AMIR HAKIM BIN ISMAIL, TAN WEI KEONG, MUHAMMAD LUQMAN BIN YASRUDDIN, MOHAMMAD LUKMAN HAKIM BIN DERANI	FKTEN		SMART INTELLIGENT EXPERT ADVISOR METATRADER SOFTWARE FOR AUTOMATED FOREIGN EXCHANGE TRADING SYSTEM	PHYSICAL	GOLD	
105	Ts. DR. NURULISMA BINTI HJ. ISMAIL, NURUL HUSNA BINTI MOHAMMAD ANWAR, DR. RASIMAH BINTI CHE MOHD. YUSOFF, NURUL'AFIAH BINTI KAMAL BAHARIN, ASMAK SYAFIYYAH BINTI MOHD. FAUZI, HUSNA BINTI SHAMSUL JAMEL	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Water Storage Monitoring System with the Integration of Internet of Things Technology (SWIOT)	PHYSICAL	GOLD	
106	Dr. Syed Muhammad Mamduh Bin Syed Zakaria, Assoc. Prof. Dr Ammar Bin Zakaria, Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin	FKTEN	CEASTech	Smart Streetlight	PHYSICAL	GOLD	
107	Ir. Zahari Awang Ahmad, Mr. Tan Shie Chow, Dr. Shuhaizar Daud, Prof. Ir. Dr. Abu Hassan Abdullah, Assoc. Prof. Dr. Muhammad Imran Ahmad	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Durio zibethinus L Plantation Intelligent Web-Based Management(DuWIMS) System using Fuzzy Logic.	PHYSICAL	GOLD	
108	Assoc. Prof. Ir. Dr. Ahmad Faizal bin Salleh, Prof. Dr. Mohd Yusoff bin Mashor, Nur Sakinah binti Mohd Hisam, Nurul Amri bin Ahmad, Azan bin Yaakob	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Automated Segmentation of Woodball Swinging Phases from Inertial Measurement Unit (Woodball SwingZer V2)	ONLINE	GOLD	
109	DR MUHD NUR RAHMAN BIN YAHYA, NALSON MARK A/L LOORUTU, NIK NUR HAIFA BINTI NEK AZIS, NOEMILY MAJINUS, MUHAMAD SHAFIQ AZIZI BIN ISMAIL	FKTEN	SERC	SmartSens	PHYSICAL	GOLD	
110	Ts. Dr. Nurulisma Binti Hj. Ismail, Muhamad Amar Bin Mohd. Zahir, Dr. Chan Tian Seng, Dr. Rasimah Binti Che Mohd. Yusoff, Nurul'afiah Binti Kamal Baharin	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Smart Colours Recognition to facilitate Person with Vision Impaired (SCR)	ONLINE	GOLD	BEST INVENTION AWARD (SOCIAL SCIENCE, BUSINESS & TEACHING INNOVATION)

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
111	Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin, Assoc Prof Dr Ammar Zakaria, Dr Syed Muhammad Mamduh Syed Zakaria	FKTEN	CEASTech	SmartCity360	PHYSICAL	GOLD	
112	Assoc. Prof. Dr. Naimah Bt Yaakob, Assoc. Prof. Ts. Dr. Nik Adilah Hanin Zahri, Siti Hajar Abdul Rahman, Riza Nur Arissha Mohd Sabri, Siti Nur Aisyah Azara'ai, Devendran A/L Ramesparan	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Smart Internet of Medical Wearable Watch for Earlier Symptoms Detection, Monitoring and Tracking of Covid-19 Patients	ONLINE	GOLD	
113	Ts. Dr. Mohd Natashah Bin Norizan, Ts. Ili Salwani Binti Mohamad, Assoc. Prof. Dr. Norsuria Binti Mahmed, Kaiswariah A/P Magiswaran, Siti Norhafizah Binti Idris, Ts. Dr. Nor Farhani Binti Zakaria, Dr. Mohd Fairus Bin Ahmad, & Dr. Shamsul Amir Bin Abdul Rais	FKTEN	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	SolarBoost: Efficiency Enhancement with Ag doped ZnO Photoanode for DSSC	ONLINE	GOLD	
114	YEOH KHAI JET, AMMAR SADEQ MOHAMMED ABOFAREA, NOR SYAMIMI BINTI AHMAD TAJUDDIN, AN-NUR INSYIRAH AFRINA BINTI ROSLEE, SITI MUNIRAH BINTI MD ZAIDI, DR. AZIAN AZAMIMI BINTI ABDULLAH & ASSOC. PROF. DR. HANIZA BINTI YAZID	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Pressure Injury Time Monitoring System (PITMS)	ONLINE	GOLD	
115	Partiban Muthukrishnan, Ts. Mohd Zaizu Ilyas, PM. Dr. Imran Ahmad, PM. Dr. Mohd Nazri Mohd Warip, PM. Dr. Phaklen Ehkan, Dr. Fazrul Faiz Zakaria, PM. Dr. Mohammad Shahrazel Razalli	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Wearable smart health monitoring system using IoT technology	ONLINE	GOLD	
116	TS. DR. NOR FARHANI ZAKARIA , ASSOC. PROF. DR. SHAHRIR RIZAL KASJOO, TS. DR. MOHD NATASHAH NORIZAN, DR MOHD FAIRUS AHMAD, DR. SAFIZAN SHAARI, ILI SALWANI MOHAMAD, DR SHAMSUL AMIR RAIS, TAN YI LIANG	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	FULLWAVE RECTIFIER FOR RF-DC HARVESTING IN 5G NETWORKS	ONLINE	GOLD	
117	Ts. Dr. Amir Nazren B Abdul Rahim	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Wild Boar Repellent System for Open Field Area	ONLINE	GOLD	
118	CLLEMENT JOHN, Assoc. Prof. Ts. Dr. Wee Fwen Hoon	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	HAND-Gesture radar unmanned ground vehicle	ONLINE	GOLD	
119	Assoc Prof. Ir. Ts. Dr. SAIDATUL NORLYANA AZEMI, Mr. MOHD SYAHIR AHMAD AZHARI, Mrs. AINUR FASIHAH MOHD FAZILAH, Mr. MOHD ASYRAF ADANAN, Dr. CHE MUHAMMAD NOR CHE ISA, Assoc Prof. Ir. Ts. Dr. RASHIDI CHE BESON, Ts. Dr. AMIZA AMIR & Assoc Prof. Ts. Dr. AZREMI ABDULLAH AL-HADI	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	Real-time Localization System Management for Healthcare	ONLINE	GOLD	
120	Soon Hwai Ing, Dr. Azian Azamimi Abdullah, Prof. Dr. Mohd Yusoff Mashor, Prof. Dr. Zeti-Azura Mohamed-Hussein, Prof. Dr. Zeehaida Mohamed and Ang Wei Chern	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	An Improved Hybrid Deep-Learning Modeling Technique to Predict the Degradation Rate of mRNA COVID-19 Vaccine	ONLINE	GOLD	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
121	Assoc. Prof. Ts. Dr. Nashrul Fazli Bin Mohd Nasir Dr. Hamzah Bin Sakeran Muhammad Syafiq Bin Yahaya Ameen Mohammed Edhah BA Madhag Anis Nabila Binti Azizi	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Anti-Decubitus Mattress Protector (ADMAP)	ONLINE	GOLD	
122	Dr. Norfatimah binti Bahari, Cheong Yook Fai, Ts. Dr. Mohd Wafi bin Nasrudin, Ts. Dr. Rashidah binti Che Yob, Ts. Dr. Nur Hidayah binti Ramli & Ts. Dr. Liyana binti Zahid	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	IoT-Based Weather Station	ONLINE	GOLD	
123	ASSOCIATE PROF. IR. TS. DR. MOHD RASHID CHE BESON, ASSOCIATE PROF. TS. DR. RO NURUL FAZIRA KU AZIR, PROF. IR. DR. SYED ALWEE ALJUNID SYED JUNID, ASSOCIATE PROF. IR. DR. NORSHAMSURI ALI@HASIM, ASSOCIATE PROF. IR. TS. DR. SAIDATUL NORLYANA AZEMI, IR. ROSDISHAM ENDUT, TS. NORZALINA OTHMAN (UNIKL), EN. MOHAMMAD NAZRI MD NOOR, DAYANG KHADIJAH HAMZAH, TS. ROKIAH ABDULLAH	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	LIGHT FIDELITY (LIFI) BASED VISIBLE LIGHT COMMUNICATION (VLC) FOR 5G NETWORK ACCESSIBILITY	ONLINE	GOLD	
124	AINUR SYAFIQAH ABDUL RAHMAN, TS DR RASHIDAH CHE YOB, TS DR NUR HIDAYAH RAMLI, TS DR LIYANA ZAHID, & DR NORFATIHAH BAHARI	FKTEN		A WIDEBAND MULTI-PORT REFLECTOMETER AS PORTABLE PASSIVE MICROWAVE MEASUREMENT COMPONENT FOR MICROWAVE IMAGING APPLICATIONS	ONLINE	GOLD	
125	Assoc. Prof. Ts. Dr. Muhammad Mahyiddin Ramli, Dr. Norizah Abd Karim, Ts. Dr. Shazlina Johari, Dr. Mohd Fairus Ahmad, Assoc. Prof. Ir. Dr. Norshamsuri Ali@Hashim, Dr. Ismariza Ismail, Assoc. Prof. Ir. Ts. Dr. Mohd. Nazrin Md. Isa	FKTEN	INEE	Gas Sensor From Oil Palm Tree Waste_WASTE TO WEALTH	PHYSICAL	SILVER	
126	Assoc. Prof. Dr. Asral Bin Bahari Jambek Ms Nor Asilah binti Khairi Dr. Fazrul Faiz bin Zakaria Assoc. Prof. Ir. Ts. Dr. Mohd Nazrin Bin Md Isa Ts. Ahmad Fariz bin Hassan	FKTEN	MST	FlyBiT: Lightweight Data Compression for Internet of Things (IoT) Applications	PHYSICAL	SILVER	
127	MOHD FAIRUS BIN AHMAD, KELVIN VOON YAN JIE, MOHD NATASHAH BIN NORIZAN, SHAMSUL AMIR BIN ABDUL RAIS, ARIF MAWARDI ISMAIL, NOR FARHANI BINTI ZAKARIA, MUHAMMAD MAHYIDDIN RAMLI, SAFIZAN SHAARI	FKTEN		A HOLDER MODULE OF TRANSPARENT GLASS BASED SOLAR CELL FOR FLUORESCENCE LIGHT INDUCED SOLAR CELL'S ELECTRICAL RESPONSE CHARACTERIZATION	ONLINE	SILVER	
128	DR. MOHD HANAFI BIN MAT SOM, METEAB ABDULLAH ABDO ALI MOQBEL, ZULFAZLIYANA BINTI MOHD ZULKIFLEE, INDUMATHI A/P GANASON, NURATIKAH BINTI OMAR, FATINI HUSNA BINTI MOHD FADZLI	FKTEN		Bedsore Monitoring System (BMS)	ONLINE	SILVER	
129	Zakirah binti Zaludin, Muhammad Faris bin Mohamad, Sushmeeka Nair A/P Prathaban, Husnahakimah binti Asmadi, Farah Husna binti Ishak, Prof Madya Dr Shuhaida Yahud & Ts Dr Che Wan Sharifah Robiah binti Mohammad,	FKTEN	CEASTech	Wearable Smart-G	PHYSICAL	SILVER	
130	SITI NOR DIANA BINTI ISMAIL, MAGESWARAN A/L PARAMESWARAN, EMI IZHANIZAM BIN AZMI	FKTEN		SMART HOME AUTOMATION AND MONITORING SYSTEM	ONLINE	SILVER	

# EKSPLO REKACIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
131	Nazuhusna Khalid, Nor Azirah Hashim, Nurul Izza Mohd Nor, Hasnizah Aris, Anas Mohd Noor, Bibi Nadia Taib, Shazlina Johari, Mazlee Mazalan, Yufridin Wahab	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	S shape inductor implemented in a 12GHz LC-VCO for RF systems	ONLINE	SILVER	
132	Ts. Dr. Khairul Najmy bin Abdul Rani & Muhammad Aidhal Firdaus bin Nasharudin	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	IoT-BASED WIRELESS DIGITAL STETHOSCOPE DESIGN	ONLINE	SILVER	
133	Dr. Anas Mohd Noor, Khalis Danial Nukman, Nurul Iman Ramzan, Dr. Ahmad Nasrul Norali, Dr. Mazlee Mazalan, Dr. Hasnizah Aris, Dr. Nazuhusna Khalid, Dr. Shazlina Johari, Dr. Bibi Nadia Taib, Dr. Nurul Izza Mohd Nor, Dr. Yufridin Wahab	FKTEN		HYBRID EXOSKELETON ASSISTIVE LIMB (HEAL)	PHYSICAL	SILVER	
134	MUSAB NAJIB ALI ASKARI ANG JING YI NUR KHUZAIMA BINTI KAMAL NURIZZATI SAFWANI BINTI ZULKAFLI Mentor: Dr Lee Hoi Leong	FKTEN		GLUCOBAND FOR NON-INVASIVE CONTINUOUS GLUCOSE MONITORING	ONLINE	SILVER	
135	DR. STEVEN TANISELASS, MUHAMMAD SHAZWAN BIN SHUBLI, PROF. DR. IR MOHD KHAIRUDDIN BIN MD ARSHAD, PM. DR. SUBASH GOPINATH & Ts. Dr. KUMUTHAWATHE ANANDA RAO	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	GREEN SYNTHESIS OF REDUCED GRAPHENE OXIDE USING NATURAL REDUCER FOR SMALL BIOMOLECULE (BIOTIN) DETECTION	ONLINE	SILVER	
136	Ts. Mohamad Rizal Abdul Rejab, Muhamad Amirul Bin Mohamad Daud, Ts. Mohd Fairuz Muhamad Fadzil, Ts. Dr. Aznor Hanah Binti Abdul Halim, Ts. Dr. Rohani S Binti Mohamed Farook, Ts. Siti Azura Binti Abuzar	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Durian Farm Smart Watering System: Plot PM1010 Mukim Temin, Changloon Kedah	ONLINE	SILVER	
137	Assoc. Prof. Ts. Dr. Mohd Aminudin Jamlos, Muhamad Faiz Nasir	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	SMART FARMING MONITORING TOWARDS IR 4.0 IMPLEMENTATION	ONLINE	SILVER	
138	Assoc.Prof.Ir. Dr.Mohd Najib bin Mohd Yasin, Dr Arif Mawardi bin Ismail, Shehab khan noor, Dr. NurAkmal Abdul Rahman,Dr Mohamed Nasrun bin Osman, Nurul Azlina Ramli	FKTEN	ACE	Revolutionizing Communication with Orbital Angular Momentum Antenna	PHYSICAL	SILVER	
139	DR.VIJAYASARVESWARI VEERAPERUMAL PAVITRAA NADESON DR. MOHD WAFI BIN NASRUDIN DR. ISZAIDY ISMAIL	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	UNIMAP BREAST HEALTH SCREENING KIT: ULTRA WIDE-BAND IMAGING THROUGH HUMAN BREAST FOR DOMESTIC, LOW-COST AND SAFE BREAST HEALTH SCREENING & VISUALIZATION SYSTEM	ONLINE	SILVER	
140	Dr. Ahmad Fariz Bin Hasan, Assoc. Prof. Ir. Dr. Sohiful Anuar Bin Zainol Murad, Ts. Dr. Faizah Binti Abu Bakar, Assoc. Prof. Dr. Norhawati Binti Ahmad, Norhafiz Bin Hashim, Mohd Fikri Bin Che Husin, Ts. Mohamad Rizal Bin Abdul Rejab & Ts. Mohd Hafizi Bin Omar.	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	High Efficiency CMOS Power Amplifier at 3.5 GHz for 5G Wireless Communications	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
141	Purushotaman A/L Mathavan (Leader), D.r Chan Tian Seng (Senior lecturer) & Ts. Dr. Nurulisma Binti Hj. Ismail(Senior lecturer)	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	IoT Based Autonomous Remote Monitoring And Actuating System Via Favoriot IoT Platform(SMARTZ)	ONLINE	SILVER	
142	Ts. Rokiah Abdullah, Samuel Rajah A/L Patrick Rajah, Ts. Zulkapli Abdullah, Mohammad Nazri, Farah Nazlia Che Kassim.	FKTEN	Pusat Kecemerlangan Micro System Technology (MST)	Smart IoT Bin	ONLINE	SILVER	
143	Rakeesh A/L Ravi, PM Dr Mohd Nazri Mohd Warip, PM Dr Phaklen Ehkan, Dr Fazrul Faiz Zakaria, Mohd Zaizu Ilyas	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Innovative IoT-based Rehabilitation System for Cerebral Palsy Patients: A Hand Movement Data Analysis and Gaming Approach	ONLINE	SILVER	
144	Muhammad Taqiyuddin Bin Mohamad Sakir, Ts. Siti Azura Binti Abuzar, Ts. Dayang Khadijah Binti Hamzah, Ts. Hazila Binti Othman, Norfazlin Binti Rashid	FKTEN		DEVELOPMENT OF SORTING SYSTEM FOR OBJECT BASED ON COLOR	ONLINE	SILVER	
145	Dr Safizan binti Shaari, Dr Nor Farhani Zakaria, Dr Mohd Fairus Ahmad, Dr Norhayati Sabani, Nuur Layya binti Mohd Yazan, Nurul Faradila binti Sazali, Nurul Afifatuliyana binti Khairul Anuar	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	ORGANIC THIN-FILM TRANSISTOR FOR DISPLAY APPLICATION	ONLINE	SILVER	
146	MIMI NORASMA BINTI MOHD AMIN TS. DR. ROHANI S. MOHAMED FAROOK TS.DR AZNOR HANAH ABDUL HALIM TS MOHAMAD RIZAL ABD REJAB TS MOHD FAIRUZ MUHAMAD FADZIL	FKTEN		DURIAN TREE IRRIGATION CONTROL & MONITORING SYSTEM	ONLINE	SILVER	
147	Nor Hidayah binti Mohd Ismail Ts. Dr. Rohani S Mohamed Farook Ts. Dr. Aznor Hanah Bt Abdul Halim Ts. Mohamad Rizal Bin Abdul Rejab Ts. Mohd Fairuz Muhamad Fadzil	FKTEN		PET ADMISSION AND REGISTRATION SYSTEM	ONLINE	SILVER	
148	SOMENDARAN A/L JASEMAL, IRFAN NUR RAZIQ BIN MOHD, MUHAMMAD IMAN AFIQ BIN RAFIZAL, Ts. HAZILA BINTI OTHMAN, Ts. DR . ISZAIDY BIN ISMAIL	FKTEN		Elderly Monitoring Devices for Senior Safety	ONLINE	SILVER	
149	Muhammad Aiman bin Mohd Yusof, Ts. Siti Azura binti Abuzar, Norfazlin binti Rashid	FKTEN		DEVELOPMENT OF FINAL YEAR PROJECT LOGBOOK SYSTEM	ONLINE	SILVER	
150	DR. SAIDATUL ARDEENAWATIE BINTI AWANG, DR. NUR FARAHIYAH BINTI MUHAMMAD, MOK KHAH YEIN, NURUL ASYIQIN BINTI MD TEJRI, KUMUDHINNI DEVI A/P ARUL SELVAM, SITI UMAIRA BINTI ZAINUDIN, MUHAMMAD SYAFIQ BIN ROSTAN	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Dextrose Guardian - Non-invasive Continuous Glucose Monitoring System	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
151	DR. SAIDATUL ARDEENAWATIE BINTI AWANG, DR. NUR FARAHIYAH BINTI MOHAMMAD, MOK KHAH YEIN, NURUL ASYIQIN BINTI MD TEJRI, KUMUDHINNI DEVI A/P ARUL SELVAM, SITI UMAIRA BINTI ZAINUDIN, MUHAMMAD SYAFIQ BIN ROSTAN	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	DEXTROSE GUARDIAN (DEXGUARD)	ONLINE	SILVER	
152	Ts. Mohamad Rizal Bin Abdul Rejab, Muhammad Izzat Fahmi Bin Shahizan, Ts. Dr. Rohani S Binti Mohamed Farook, Ts. Dr. Aznor Hanah Binti Abdul Halim, Tuan Haji Suhizaz Bin Sudin	FKTEN	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Health Monitoring System for UniMAP's Athletes	ONLINE	SILVER	
153	Associate Prof. Ts. Dr. Ku Nurul Fazira Ku Azir, Associate Prof. Ir. Ts. Dr. Mohd Rashidi Che Beson, Wan Nur Fadhlina Syamimi Wan Azman	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	CLASSIFICATION OF COOKED FOODS CONTAMINATION BASED ON MACHINE LEARNING AND E-NOSE APPLICATION	ONLINE	SILVER	
154	Nurlisa Binti Yusuf @ Idris, Fong Rong Cheng, Ts. Dr. Che Wan Sharifah Robiah Binti Mohamad, Prof. Madya Dr. Khairul Farihan Binti Kasim, Dr. Lee Boon Beng.	FKTEN		Encapsulation of Honey Powder	ONLINE	SILVER	
155	TS.DR AZNOR HANAH ABDUL HALIM, TS.DR ROHANI S MOHAMED FAROOK, MUHAMMAD HAFIZ SHAFAWI BIN SHAMSUDDIN, MUHAMMAD DANIEL QAWIEM BIN NASIR, TS MOHAMAD RIZAL ABD REJAB,	FKTEN	SERC	COMBAT SPORT TRAINING EFFICIENCY DETERMINATION USING MOTION CAPTURE	PHYSICAL	BRONZE	
156	TS Hariyanti Mohd Saleh (UniMAP), Dr Nor Hidayah Saad (UniMAP), Prof Ir Dr Nor Ashidi Mat Isa (USM), Nur Hidayah Salim (Advanced Medical & Dental Institute, USM)	FKTEN	Pusat Kecemerlangan Pengkomputeran Termaju	Overlapping Chromosome Segmentation using Machine Learning with Test Time Augmentation	ONLINE	BRONZE	
157	Zulaika Abdullah & Assoc. Prof. Ts. Dr. Siti Khadijah Za'aba	FKTEN		Plasma Activated Water (PAW) on Microbial Decontamination and Cancer Treatment	ONLINE	BRONZE	
158	Dr. Norizan Mohamed Nawawi, Ms. Dhesini A/P Subas Sukumar, Ts. Dr. 'Aini Syuhada Md Zain, Ts. Dr. Nuraminah Ramli, Ts. Dr. Ismahayati Adam & Mr. Ahmad Ashraf Abdul Halim	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	UniMAP Smart Security Gate System Based IOT	ONLINE	BRONZE	
159	TS.DR. NUR HIDAYAH BINTI RAMLI, TS.DR. RASHIDAH BINTI CHE YOB, TS.DR. LIYANA BINTI ZAHID, DR. NORFATIAH BINTI BAHARI	FKTEN	Pusat Kecemerlangan Kejuruteraan Komunikasi Termaju (ACE)	IoT-based Low-Cost Smart Farming Monitoring and Irrigation System for Plantation Area	ONLINE	BRONZE	
160	Muhammad Farhan bin Saleh, Ts. Siti Azura binti Abuzar, Ts. Dayang Khadijah binti Hamzah, Ts. Mohamad Rizal Abdul Rejab, Ts. Dr. Rohani S Mohamed Farook	FKTEN		DESIGN AND DEVELOPMENT OF DRONE-BASE PARCEL DELIVERY SYSTEM	PHYSICAL	BRONZE	



# EKSPOR REKASIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
161	Norlida Bt Abu Bakar, PM.Ir.Dr.Rozana Aina Maulat Osman, Wan Mohd Faizal B Wan Nik, Faradilla Bt Aziz, Afzan Bt Kamaruddin, Wan Azlianawati Bt Wan Aziz, Mohd Nazri B Abu Bakar & Mohd Wafiuddin B Yahya	FKTEN		Ba0.5Sr0.5TiO3 (BST) on P-Type Silicon Wafer For Potential Photovoltaic Device	ONLINE	BRONZE	
162	Muhammad Danial Hazim bin Mohd Hakim, Ts. Siti Azura binti Abuzar, Ts. Dr. Aznor Hanah binti Abdul Halim, Ts. Mohd Fairuz bin Muhamad Fadzil	FKTEN		Development of Network Fault Monitoring System	ONLINE	BRONZE	
163	Ts. Mazlee Mazalan, Dr. Nazuhusna Khalid, Dr. Nurul Izza Mohd Nor, Dr. Hasnizah Aris, Dr. Anas Mohd Noor, Dr. Bibi Nadia Taib, Dr. Shazlina Johari, Assoc. Prof. Dr. Yufridin Wahab, Dr Wan Safwani Wan Kamarul Zaman	FKTEN	MST	Surface Acoustic Wave (SAW) Device for Cell Migration Control	PHYSICAL	BRONZE	
164	Ts. Dr. Shazlina Johari, Syafiqah Ishak, Assoc. Prof. Dr. Muhammad Mahyiddin Ramli	FKTEN	INEE	FORMALDEHYDE GAS SENSOR	ONLINE	SILVER	
165	Assoc. Prof. Dr. Midhat Nabil bin Ahmad Salimi, Assoc. Prof. Ts. Dr. Ahmad Anas bin Nagoor Gunny, Assoc. Prof. Ts. Dr. Irnis Azura binti Zakarya, Ts. Dr. Umar bin Kassim, Dr. Siti Nazrah binti Zailani, Dr. Hafiza binti Shukor & Hishamuddin bin Che Mat.	FKTK	CEGeoGTech	UniSEA Organic Marine Liquid Fertilizer	PHYSICAL	GOLD	GRAND AWARD 2ND PLACE
166	Dr. Noorulnajwa Diyana Yaacob, Nur Mawaddah Majib, Assoc. Prof. Dr. Hakimah Osman & Assoc. Prof. Dr. Sam Sung Ting	FKTK		MycFOAM: Mycofilter in Rubber Wastewater	PHYSICAL	GOLD	
167	Nor Fauziah bt. Zainudin, Assoc. Prof. Dr. Sam Sung Ting, Assoc. Prof. Dr. Wong Yee Shian, Prof. Dr. Hanafi Ismail, Assoc. Prof. Dr. Wai Kian Tan, Mr. Saparu Walli.	FKTK		RH-PiCo: A NOVEL COAGULANT SYNTHESIZED FROM RICE HUSK ASH FOR WASTEWATER TREATMENT	PHYSICAL	GOLD	
168	ASSOC PROF. TS. DR. AHMAD ANAS NAGOOR GUNNY, NOR AMIRAH AZWA BT NORIZAL, ASSOC. PROF. DR. SUBASH C B GOPINATH, PUAN DALILA (MARDI), RAJA HASNIDA RAJA HASHIM	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	Fabrication of Nanoemulsion based Origanum vulgare (Oregano) Essential Oil for Mango Postharvest Application	ONLINE	GOLD	
169	Norhidayah Abd Aziz, Dr Noor Hasyierah Mohd Salleh, Assoc. Prof. Dr. Subash Chandra Bose Gopinath, Siti Aminah Mohd Hassan, Assoc. Prof Dr Zarina Zakaria, Ahmad Mukhlis Abd Rahman, Muhamad Ikmal Sirozi.	FKTK	CEBU	Biogenic silver nanoparticles from food waste as potent fungicide for grey oyster mushroom protection	PHYSICAL	GOLD	
170	Ts. Dr. Azduwin Khasri, Nur Athirah Awatif Abdul Rahman, Dr. Noor Hasyierah Mohd Salleh, & Assoc. Prof. Ir. Ts. Dr. Mohd Ridzuan Mohd Jamir	FKTK		N-Ce-AC-TiO2 Photocatalyst for Antibiotic Degradation	PHYSICAL	GOLD	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
171	Ts. Dr. Hoo Peng Yong, Zainor Syahira binti Zainal, Prof. Ts. Chm. Dr. Ahmad Zuhairi Abdullah, Asst. Prof. Dr Shuit Siew Hoong, Dr Jeyashelly A/P Andas, Dr Siti Kartini Binti Enche Ab Rahim, Dr Ng Qi Hwa	FKTK	CFMR	ePANECEA: Enhanced Alkaline Earth Silicate of Rice Husk Ash Origin for Free Fatty Acid Extraction from Waste Frying Oil	PHYSICAL	GOLD	
172	Pilomeena Arokiasamy, Prof. Ts. Dr. Mohd Mustafa Al Bakri Abdullah, Assoc. Prof. Dr. Shayfull Zamree Bin Abd Rahim, Assoc. Prof. Ir. Dr. Mohd Arif Anuar Mohd Salleh, Assoc. Prof. Dr. Mohd Remy Rozainy Mohd Arif Zainol, Dr. Wan Mastura Wan Ibrahim, Assoc. Prof. Dr. Rafiza Abdul Razak, Dr. Noorina Hidayu Jamil	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Sustainable Developed High Efficient Metakaolin/Sludge Geopolymer Adsorbent for Cu <sup>2+</sup> Removal	ONLINE	GOLD	
173	Mr. Muhamad Al-Haqqem Abdul Hadi, Dr. Nor Azura Abdul Rahim, Assoc. Prof. Ts. Dr. Teh Pei Leng, Assoc. Prof. Ir. Dr. Yeoh Cheow Keat, Assoc. Prof. Ts. Dr. Zunaida Zakaria, Mr. Wong Wee Chun	FKTK		Environmentally friendly thermoplastic pigment masterbatch made from recycled carbon black	ONLINE	GOLD	
174	Dr. Sharifah Shahnaz Binti Syed Bakar, Ts Dr Faizul Bin Che Pa, Dr Muhammad Firdaus Bin Mohd Nazeri, Ir Dr Juyana Binti A Wahab, Dr Khairul Anwar Bin Abdul Halim, Mohammad Hafiz Bin Ismail	FKTK	CEGeoGTech	i-GARDENING POT	PHYSICAL	GOLD	
175	Ts. Dr. Noor Shazliana Aizee Binti Abidin	FKTK	CEBU	HarumaNest Botanical Drink	PHYSICAL	GOLD	
176	Novel mushroom substrate formulation from mushroom spent compost. Assoc. Prof. Dr Zarina bt Zakaria, Dr. Siti Nazrah bt Zailani, Fatimah bt Aziz, Noorsyazlina bt Ahmad Rozi	FKTK	CEBU	NOVEL MUSHROOM SUBSTATE CULTIVATION FORMULATION WITH MUSHROOM SPENT COMPOST	PHYSICAL	GOLD	
177	ChM. Dr. Rozaini Abdullah, Prof. Ts. ChM. Dr. Ahmad Zuhairi Abdullah, Dr. Noor Amirah Abdul Halim, Pn. Sharifah Zati Hanani Syed Zuber	FKTK		SELECTIVE CONVERSION OF PURIFIED CRUDE GLYCEROL TO LACTIC ACID USING SOLID BASE CATALYST	ONLINE	GOLD	
178	Dr Mohd Asraf bin Mohd Zainudi, Pn. Nurul Husna Khairuddin, En. Ahmad Zahari bin Mohd Noor , & Dr. Amirul Ridzuan Abu Bakar	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	Pharmacognostic evaluation of Zingiber officinale and Curcuma longa from Perlis for therapeutic discovery	ONLINE	GOLD	
179	Loh Zhen Hao, T.S. Roshita Ibrahim, Dr. Iffah Nadhira Madzuki, Nurul Nadzirah Mohd Yusof, Dr. Asraf Mohd Zainudin	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	THE BENEFITS OF KENAF LEAVES IN A PASTILLE	ONLINE	GOLD	
180	Assoc. Prof. Dr. Subash C.B. Gopinath, Hussaini Adam & Hemavathi Krishnan	FKTK	INEE	Lab-on-a-Chip Device: Integration of Microfluidics on Interdigitated Electrodes	PHYSICAL	GOLD	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
181	Dr. Nur Suhaili Mohd Yatim & Gauthaman A/L Ravichandran	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	Surface Modification of Poly (Vinylidene Fluoride) (PVDF) Membranes with Untreated and Treated Chitosan for Antibacterial Performance	ONLINE	GOLD	
182	Assoc. Prof. Dr. Subash C.B. Gopinath & Hemavathi Krishnan	FKTK	INEE	Molecular-imprinting Technology based Surgical-site Blood Clotting Surveillance System	ONLINE	GOLD	
183	Dr. Mohd Faiz bin Mohamad Shahimin & Dr. Amirul Ridzuan Abu Bakar	FKTK	Pusat Kecemerlangan Kajian dan Perkembangan Persekitaran Lestari	Pueraria mirifica extract as an alternative organic antiseptic	ONLINE	GOLD	
184	Nurul Izzati Muhamad Zakir, Assoc Prof Ts. Dr Zunaida Zakaria, Assoc Prof Dr Ts Dr Hakimah Osman, Prof Zulkifli Mohamad Ariff, Dr Hafiza Shukor,	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Self-Floating BioFILTER For Dyes Adsorption Towards Better Water Quality and Sustainability	ONLINE	GOLD	
185	Dr. Mohd Faiz Mohd Shahimin, Ummu Átiyah Mohd Taufik, En. 'Afifi Md Desa, Dr. Nik Muhammad Azhar Nik Daud & Dr. Amirul Ridzuan Abu Bakar	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	OPTIMIZATION OF PUERARIA MIRIFICA USING GREEN EXTRACTION TECHNIQUE FOR THERAPEUTIC DISCOVERIES	ONLINE	GOLD	
186	TS. DR. AZALINA MOHAMED NASIR, ANIS SYAHIRAH ISMAIL, NOORHIDAYAH ISHAK, ZULKARNAIN MOHAMED IDRIS	FKTK		SURFACED NITRATE ION-IMPRINTED POLYMER ON MODIFIED GRAPHITE USING FIXED-BED COLUMN	ONLINE	GOLD	
187	Assoc. Prof. Ts. Dr Azlin Fazlina Osman, Asfa Amalia Ahmad Fauzi, Dr. Khairul Anwar Abdul Halim, Noridayu Ismail & Prof Dr. Hanafi B. Ismail	FKTK	CEGeoGTech	Biomedical Poly-dolomite	PHYSICAL	SILVER	
188	Rohazita Bahari, Dr Hafiza Shukor & Dr Mismisuraya Meor Ahmad	FKTK	CEBU	MangiferaLux: Extraction of Mangiferin from Harumanis Mango Pruned Leaves as Material for Formulation Personal Care Body Soap	PHYSICAL	SILVER	
189	Dr. Ang Qian Yee, Ain Nasuha binti Mustafa, Dr. Nur Suhaili binti Mohd Yatim & Ts. Dr. Tow Leong Tiang	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	Conceptual Insight on The Incorporation of Chitosan Towards The Fouling Mechanism in Membrane Distillation	ONLINE	SILVER	
190	Nur Asyiqin Zamuri, Dr Noor Hasyierah Mohd Salleh & Dr Siti Nur Aishah Mat Yusuf	FKTK		THE POTENTIAL OF BIOGENICALLY SYNTHESIZED SILVER NANOPARTICLES FROM TROPICAL HARDWOOD VINEGAR AS A NEW ANTIOXIDANT AGENT	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
191	Natasha Yasmin Binti Hasnol Azahari, Ts. Dr. Kunasundari A/P Balakrishnan*, Dr. Shuit Siew Hoong	FKTK		Tri-Enzyme System Immobilized on Magnetized Multiwall Carbon Nanotubes (m-MWCNTs) for Hydrolysis of Lignocellulosic Biomass	ONLINE	SILVER	
192	Muhammad Aidiel Bin Mohd Razali, Dr Nik Muhammad Azhar Nik Daud, Dr Sharizan Bin Md Sarip, Dr. Mohd Asraf Bin Mohd Zainudin*	FKTK		Enzymatic Modified Rice Bran Protein as Alternative Functional Food Ingredient	ONLINE	SILVER	
193	Siti Fatimah Azzahran Abdullah, Dr. Siti Shuhadah Md Saleh, Dr. Nur Farahiyah Mohammad, Dr Syarifah Nuraqmar Syed Mahamud	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Acetabular component from Ultra high molecular weight polyethylene/treated dolomite composite	ONLINE	SILVER	
194	Kamalea Amaleena Farhana binti Kamal Ramlee, Dr. Nik Muhammad Azhar bin Nik Daud, Dr. Mohd Sharizan Md. Sarip, Dr. Amirul Rizuan Abu Bakar, Dr. Mohd Asraf B. Mohd Zainudin	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	DEEP EUTECTIC SOLVENTS FOR PROTEIN EXTRACTION FROM RICE BRAN	ONLINE	SILVER	
195	SRIYANA ABDULLAH, PROF. IR. DR. YUS ANIZA YUSOF, DR. NOR NADIAH ABDUL KARIM SHAH, DR. FAIQA SHAZEA MOHD SALLEH, DR. MUHAMMAD AZHAR ALI, Ts. DR MOHD SAIFIZI SAIDON, DR. NORAWANIS ABDUL RAZAK	FKTK		AN EFFICIENT INFRARED DRYER FOR CLINACANTHUS NUTANS HERBAL PLANT	ONLINE	SILVER	
196	Tan Jing Yi, Dr Adilah Anuar, Mustaqim Abdul Aziz, Dr Mohd Azrie Awang	FKTK		Potential of Ginger Extract as a Nature Robust Antibiotics and Its Influence on Antibacterial Capacity	ONLINE	SILVER	
197	Dr. Maha Mohammad Hussein AL-Rajabi, Lecturer/UniMAP & Ir. Dr. Teow Yeit Haan, Associate Professor/UKM	FKTK		Temperature Sensitive Bio-Hydrogel for Drug Delivery and Burn Treatment	ONLINE	SILVER	
198	Ts. Dr. Rahimah Binti Othman, Miss Monisha Devi A/P Elan Solan Marimuthu, Assoc. Prof. Dr. Hakimah Osman & Dr. Mismisuraya Binti Meor Ahmad	FKTK		“Smart” Self-assembled PLA-MMT/Moringa Oleifera L. Particles: For Obesity and Hypercholesterolemia Treatment	PHYSICAL	SILVER	
199	Assoc. Prof. Dr Ku Syahidah Ku Ismail, Nur Zatul 'Iffah Zakaria, Dr Khadijah Hanim Abdul Rahman, Assoc. Prof. Dr Ahmad Anas Nagoor Gunny & Mohammad Zulhimi Ishak	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	1-DES Ethanol -A single-tank green cellulosic ethanol production	ONLINE	SILVER	
200	Ts. Dr. Noor Ainee Binti Zainol, Miss Nur Alyssa Binti Razali, Mrs. Nor Aida Binti Yusoff, Mrs. Khairunissa Syairah Binti Ahmad Sohaimi & Miss Nor Munirah Binti Rohaizad	FKTK	Pusat Kecemerlangan Kajian Air dan Perkembangan Persekitaran Lestari (WAREG)	Quaternized Cellulose based Flocculant from Office Paper Waste	ONLINE	SILVER	

# EKSPOR REKACIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
201	Siti Aminah Mohd Hassan, Norhidayah Abd Aziz, Dr Noor Hasyierah Mohd Salleh, Syarifah Rokiah Syd Kamaruzaman, Mohd Amin Zainal Abidin, Mohammad Nazri Romli, Soo Hoo Shao Chi	FKTK		MYCO-KENAF SPAWN	PHYSICAL	SILVER	
202	Dr. Adibah Izzati Daud, Nurul Nabilah Shuaib, Dr. Suhana Arshad, Mohamad Aizat Abu Bakar, Prof. Chm. Dr. Wan Mohd Khairul Wan Mohamed Zin	FKTK		D2-Chalcone: Advancement in Nonlinear Optical Characteristic as Potential Emitting Material in OLED	PHYSICAL	SILVER	
203	Nurlyana Izyan bt Mohd Ali, Dr. Nur Izzati Muhammad Nadzri,	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	EVOLUTION OF CoCrFe Based High Entropy Alloys	ONLINE	SILVER	
204	ISMAIL BIN IBRAHIM, PM TS DR AZLIN FAZLINA OSMAN, HAFIZ BIN ZAINOL, MOHD NASIR IBRAHIM, NORZAIDI BIN ZAINOL, KHAIRUL NADIAH BINTI KHALID	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	EcoTOBB: A Revolutionary Thermoplastic Starch	ONLINE	SILVER	
205	Mrs Sharifah Zati Hanani Syed Zuber, Mr Muhammad Luqman Amirul Shafidan, Dr. Rozaini Abdullah, Dr Nor Ashikin Ahmad	FKTK		AT-KF: A LOW-COST ADSORBENT FOR DYE REMOVAL	ONLINE	SILVER	
206	Assoc. Prof. Dr. Voon Chun Hong, Foong Phey Yee, Assoc. Prof. Dr. Lim Bee Ying, Assoc. Prof. Dr. Teh Pei Leng, Assoc. Prof. Dr. Mohd Afendi Rojan	FKTK	INEE	MICROWAVE WELDING OF THERMOPLASTIC USING SILICON CARBIDE NANOMATERIALS AS NOVEL SUSCEPTOR	PHYSICAL	SILVER	
207	Dr Siti Khalijah Mahmud Rozi & Khairul Muzzammil Berhanundin	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	NOVEL MAGNETIC EGGSHELL MEMBRANE FUNCTIONALIZED WITH WASTE PALM FATTY ACID FOR SELECTIVE ADSORPTION OF OIL FROM AQUEOUS SOLUTION	ONLINE	SILVER	
208	Siti Aminah Mohd Hassan, Syarifah Rokiah Syd Kamaruzaman, Nurul Afidah Umoruddin, Siti Rafeeqah Romli, Badrul Hisham Johari, Ahmad Saiful Salim, PM Dr. Muhammad Imran Ahmad, Mohd Amin Zainal Abidin	FKTK	INSAT	MYCO-VERMICOMPOST	PHYSICAL	SILVER	
209	Athirah binti khemar, Dr Kamrosni Abdul Razak, Dr Nur Izzati Muhammad Nadzri, Prof. Assoc. Ir .Dr. Mohd Arif Anuar Mohd Salleh, Aimi Noorliyana Hashim	FKTK	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Effect of Different Percentages Nickel Addition on Sn0.7Cu-xNi Solder Joints	ONLINE	SILVER	
210	Lim Kean Chong, Dr. Syarifah Nuraqmar Syed Mahamud, Assoc. Prof. Ts. Dr. Azlin Fazlina Osman, Ts. Dr. Mohd Hanif Mohd Pital, Dr. Siti Shuhadah Md Saleh	FKTK	CEGeoGTech	Biotough HBV	PHYSICAL	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
211	Dr. Nor Ashikin Ahmad, PM Ir. Dr. Umi Fazara Md Ali, PM Ts. Dr. Sara Yasina Yusuf, Sharifah Zati Hanani Syed Zuber, Izatul Najwa Bt Abdullah, Nurul Nurhusna Bt Jonurhairulnizam, Nur Nafisah Maisarah Bt Mohd Nor.	FKTK	CEBU	Acidic Soil Carbon Boost	PHYSICAL	BRONZE	
212	Dr. Khairul Anwar Abdul Halim, Farah Badrul, Assoc. Prof. Ir. Dr. Mohd Arif Anuar Mohd Salleh	FKTK	CEGeoGTech	Metallic Based Flexible Conductive Polymer Composites for Smart Devices Application	PHYSICAL	BRONZE	
213	Dr. Saleha Shamsudin, Shalini Prathiwi Abdullah, Dr. Ezyana Kamal Bahrin & Ts Dr. Mariam Firdhaus Mad Nordin	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	BIOPROTEIN PRODUCTION FROM PINEAPPLE WASTE EXTRACT BY <i>Kluyveromyces marxianus</i> CBS 6556	ONLINE	BRONZE	
214	NOOR MARIAMADZLIZA BINTI MOHD NAN, Ts. DR. KAMROSNI BINTI ABDUL RAZAK, Ts. NOOR AZIRA BINTI MOHD NOOR, TENGGU IAN MAYUDIN BIN TENGGU HARRIZ NAZLIE, ZAFRI AZIZI BIN NORZAIREE, NUR IWANA IZZAH BINTI MD RADZI & ANIS FARAHIYAH BINTI AB HALIM	FKTK		GP Adsorbents	PHYSICAL	BRONZE	
215	Nur Hulwani Binti Ibrahim, Dr. Siti Nazrah Binti Zailani, Ts. Dr. Noor Ainee Binti Zainol, Assoc. Prof. Dr Subash C.B Gopinath, Dr. Muhammad Nur Aiman	FKTK	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	SYNERGISTIC STEP TO REMOVE LEAD FROM WASTEWATER	ONLINE	NONE	
216	Dr. Ismariza Ismail, Assoc. Prof. Ts. Dr. Muhammad Mahyiddin Ramli, Assoc. Prof. Ir. Ts. Dr. Mohd. Nazrin Md. Isa, Dr. Norizah Abd Karim, Ts. Dr. Shazliana Johari, Dr. Mohd Fairus Ahmad, Muhamad Najmi Ishak	FKTK	INEE	BANANA STEM WASTE AS A SUSTAINABLE MODIFIER FOR MICROSTRUCTURE MODIFICATION OF PROTONIC CERAMIC FUEL CELL CATHODE	ONLINE	GOLD	
217	Dr. Yuzairi Bin Abdul Rahim, Assoc. Prof. Dr Ammar Bin Zakaria, Dr. Syed Muhammad Mamduh Bin Syed Zakaria, Assoc. Prof. Dr. Latifah Munirah Binti Kamarudin	FKTM	CEASTech	SportViz360: SPORTS ANALYTICS FOR PLAYER MOVEMENT AND TRACKING SYSTEM	PHYSICAL	GOLD	BEST OF THE BEST AWARD
218	Ts. Sanusi Hamat, Assoc. Prof. Dr. Muhamad Saifuldin Abdul Manan, Dr. Mohd Sabri Hussin, Dr. Syamir Alihan Showkat Ali, Ts. Dr. Ahmad Nabil Mohd Khalil, En. Mohd Syedi Imran Dawi, Kpt. Muhammad Khairy Md Naim, En. Maliki Ibrahim, Dr Yuzairi Abd Rahim, Dr Mohd Zakimi Zakaria	FKTM		ReFil+3DP: A Biodegradable 3D Printing Filament Formulation From Recycled PLA + Dopamine + Kenaf	PHYSICAL	GOLD	BEST INVENTION AWARD (CHEMICAL, ADVANCED MATERIAL & PLASTIC)
219	1. Assoc. Prof. Ir Ts. Dr Mohd Ridzuan Bin Mohd Jamir (UniMAP) 2. Prof. Ir. Dr. Mohd Shukry Abdul Majid (UniMAP) 3. Ir. Dr. Md Tasyrif Abdul Rahman (UniMAP) 4. Yeo Yi Xuan (UniMAP) 5. Haja Syed Hussain Noor Al Karim (UniMAP)	FKTM	CFMR	MANUFACTURING OF MEDIUM-DENSITY FIBREBOARD FROM KENAF CORE FOR INTERIOR DESIGN MATERIALS	PHYSICAL	GOLD	
220	Assoc. Prof. Ir. Dr. Fauziah Mat, Prof. Ir. Dr. Mohd Shukry Abdul Majid, Assoc. Prof. Ir. Ts. Dr. Mohd Ridzuan Mohd Jamir, Dr. Nursyazwani Abdul Aziz, Prof. Thomas Joyce, Prof. Dr. Kheng Lim Goh, Assoc. Prof. Dr. Mohd Yuhazri Yaakob, Dr. Al-Hafiz Ibrahim	FKTM	CFMR	GREEN LOWER LIMB PROSTHETIC SOCKET (LLPS) FOR AMPUTEES	PHYSICAL	GOLD	

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## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
221	Ts. Liyana Jamaludin, Assoc. Prof. Dr. Rafiza Abd Razak, Prof. Dr. Mohd Mustafa Al Bakri Abdullah & Nurul Aida Mohd Mortar	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	HYDROPHILIC GEO-SMART COATING	ONLINE	GOLD	
222	Assoc. Prof. Ts. Dr. Tan Soo Jin, Assoc. Prof. Ts. Dr. Foo Kai Loong, Assoc. Prof. Ts. Dr. Liew Yun Ming, Assoc. Prof. Ts. Dr. Heah Cheng Yong, Prof. Dr. Mohd Mustafa Al Bakri Abdullah, Dr. Mohammad Firdaus Abu Hashim, Rahul Promprasit A/L Seet	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	PolyGreen Pipe for Green Future	ONLINE	GOLD	
223	Associate Professor Ir Ts Dr Nasrul Amri Mohd Amin, Dr. Nursyazwani Abdul Aziz, Mr. Mohammad Fauzi Mahmud, Associate Professor Ir Ts Dr Zuradzman Bin Mohamad Razlan, Professor Ir Dr Mohd Shukry Abdul Majid, Professor Ir Dr Abdul Hamid Adom	FKTM		SMART EMBEDDED UNINTERRUPTED POWER SUPPLY SYSTEM FOR ENERGY-EFFICIENT MANAGEMENT IN BUILDING	ONLINE	GOLD	BEST INVENTION AWARD (MACHINERY & EQUIPMENT)
224	Mohamad Shaiful Ashrul Ishak, Mohd Nazri Omar, Nor Zaiazmin Yahaya, Amizah Md Ariffen, Sa'adah Ahmad @ Ahmad Sowi & Roszi Anuar Hamid	FKTM		NanoTech Cold Dough Mixer	PHYSICAL	GOLD	
225	TS. DR. NORSHAH AIZAT SHUAIB, MOHD HAIDIEZUL JAMAL AB HADI, PROF. MADYA IR. DR. UMI FAZARA MD ALI, PROF. MADYA DR. AZLIN FAZLINA OSMAN, CHANG REN QUAN (ECO POWER SYNERGY SDN BHD) & MASHITOH KHALID	FKTM	CEBU	RECYCLED CARBON BLACK (rCB) REINFORCED PLASTIC FROM WASTE TYRE PYROLYSIS FOR 3D PRINTING APPLICATIONS	PHYSICAL	GOLD	
226	Ts. Mohamad Suhaimi Bin Shahrin, Ts. Dr. Muhammad Aiman Bin Ahmad Fozi, Ts. Muhammad Lutfi Bin Abd Latif, Muhamad Farizuan Bin Rosli Ir. Ts. Asmawi Bin Mohd Khailani, Assoc. Prof. Dr. Ing. Mohd Nazri Bin Omar, Kevin Chuah Seong Jin, Che Salwani Bt Enche Mohd Noor	FKTM		CONCEPTUAL MODEL: SUSTAINABLE WBL@CAR SOME	PHYSICAL	GOLD	
227	Dir Fazly bin Pailin, Ts. Muhammad Ikman bin Ishak & Wan Nur A'tiqah binti Wan Draman	FKTM		Staircase Climbing Hand Truck	ONLINE	GOLD	
228	Ts. MARINA MARZUKI, Ts. KARTINI HJ ALIR, Ts. Dr. MOHD ZAMZURI MOHAMMAD ZAIN, Dr. NUR HAMIDAH ABDUL HAMID	FKTM		ELECTRODE MATERIAL BASED ON Mg:ZnO/CuO HETEROJUNCTION NANOCOMPOSITE FOR NON-ENZYMATIC ELECTROCHEMICAL BIOSENSING	ONLINE	GOLD	
229	KAPT. TS. LEONG KEAN WEI ASSOC. PROF. DR. SHAYFULL ZAMREE ABD RAHIM, PROF. TS. DR. MOHD MUSTAFA AL BAKRI ABDULLAH, ASSOC. PROF. DR. MOHD FATHULLAH GHAZLI, ASSOC. PROF. DR. MOHD FIRDAUS OMAR,	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	r-CuEC: SUSTAINABLE RECYCLED COPPER EPOXY COMPOSITE AS MOULD INSERTS FOR RAPID TOOLING	ONLINE	GOLD	
230	DR. LEE YIT LENG, MUHAMMAD HISHAMMUDDIN BIN HAMDAN, DR. NORAWANIS ABDUL RAZAK, DR. KHOR CHU YEE, Iqbal Mohd Usamah, Ras Izzati Ismail, Nur Lailina Makhtar	FKTM		AROMATIC PLANT EXTRACTS-DERIVED GREEN PESTICIDES	ONLINE	GOLD	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
231	Associate Professor Dr Ahmad Humaizi bin Hilmi, Associate Professor Dr Mohd Saifuldin bin Abdul Manan, Dr Asna Rasyidah binti Abdul Hamid, Mejar Abdul Rashid bin Othman, Dr Norizah binti Karim, Muhammad Irfan Syazwan bin Ismail, Mohd Syedi Imran bin Dawi	FKTM	SERC	Revolutionizing Graphene Synthesis with a Banana Trunk and Delayed Timing Explosion	PHYSICAL	GOLD	
232	Dr. Mohd Riduan Jamalludin, Ts. Dr. Siti Khadijah Hubadillah, Dr. Mohd Ridhwan Adam, Dr. Mariam Majid, Dr. Nurul Azita Salleh, Dr Yuhainis Mohd Yusoff, Dr. Norsiah Hami,	FKTM	CFMR	SIL-BiOPlastic Membrane	PHYSICAL	GOLD	
233	Tan Kian Sin, Mohd Haikal Mohd Hajazy, Ahmadea Ahmad, Dr. Norshah Afizi Shuaib, Assoc Prof Ir Dr Shayfull Zamree Abd Rahim, Assoc Prof Ir Dr Mohd Fathullah Mohd Ghazli@Ghazali, Muhamad Farizuan Rosli	FKTM	CEGeoGTech	Tool Condition Monitoring using Vibration and Acoustic Emission Signals for Mechanical Micro Machining	PHYSICAL	SILVER	
234	Dr. Mohd Riduan Jamalludin, Ts. Dr. Siti Khadijah Hubadillah, Ts Mohd Haidiezul Jamal Ab Hadi, Dr. Masniezam bin Ahmad, Ir. Ts. Dr. Wan Mohd Faizal bin Wan Ab Rahim, Ts. Mohd Hazwan bin Mohd Hanid, Ts. Dr Abdul Syafiq bin Abdull Sukor, Muhamad Nur bin Misbah	FKTM	CFMR	HAP-K Bio-Membrane: Smart Adsorptive Membrane for Wastewater Treatment	PHYSICAL	SILVER	
235	Team Leader: Ts. Dr. Abdul Syafiq bin Abdull Sukor  Member: Dr. Sukhairi bin Sudin	FKTM	CEASTech	IoT-based Smart Aeroponic System for Plant Growth Response	PHYSICAL	SILVER	
236	Dr. Mariam Majid, Ts. Dr. Abdul Syafiq Abdull Sukor, Ts. Dr. Mohd Riduan Jamaluddin, Dr. Tengku Roslina Tuan Yusof	FKTM		Water-Based Integrated Greener Approach of Agriculture Biodegradable Flower Pots	PHYSICAL	SILVER	
237	Ts.Mohd Haidiezul Jamal bin Ab Hadi	FKTM	SERC	IoT Enabled & Cloud Based Automated 3D Printing Smart Teaching Factory with Data Analytics	PHYSICAL	SILVER	
238	Dr Rashidah Ruslan, Ts Dr Fathin Ayuni Azizan, Munira Mohamed Nazari, Aimi Athirah Aznan	FKTM	CEBU	RiSe-IVis : Rice Seed Inspection Vision System	PHYSICAL	SILVER	
239	Associate Professor Dr Ahmad Humaizi bin Hilmi, Associate Professor Dr Mohd Saifuldin bin Abdul Manan, Dr Asna Rasyidah binti Abdul Hamid, Mejar Abdul Rashid bin Othman, Nurhazirah binti Ahmad Riduan, Muhammad Irfan Syazwan bin Ismail, Mohd Syedi Imran bin Dawi	FKTM	SERC	Banana Trunk as Blast Protection Wall Against Unexploded Ordnance	PHYSICAL	SILVER	
240	Ts. ChM. Dr Romisuhani Ahmad, Nur Bahijah Mustapa, Prof Dr Mohd Mustafa Al Bakri Abdullah, Wan Hasnida Wan Mohamed Saimi, Wan Mastura Wan Ibrahim 0126	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	GEOPOLYMER-BASED NEPHELINE CERAMICS	ONLINE	SILVER	



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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
241	Siti Munirah Faudzi	FKTM		BIO-BASED COCONUT OIL HYBRID NANOLUBRICANT FOR CLEANER METALWORKING FLUID	ONLINE	SILVER	
242	Prof. Ir. Ts. Dr. Shahrizan Abu Bakar, Assoc. Prof. Ir. Dr. Zuradzman Mohamad Razlan, Prof. Dr. Muhammad Shahr Jusoh, Assoc. Prof. Dr. Mohd Sani Mohamad Hashim, Dr. Mohd Nasir Ayob, Dr. Dayang Hasliza Muhd Yusuf, Rishan Murali, Sukport Sunan	FKTM	MOTECH	MOBILE BUSINESS SOLUTION (NENAS CARRIER)	PHYSICAL	SILVER	
243	Ts. Dr. Anas Bin Abdul Rahman (Mentor), Muhammad Asyraf Muhtadi Bin Mohd Arshat (Leader), Lee Hui Khai, Zurfatin Binti Zulkifle & Kong Wern Yin	FKTM		PORTABLE COLD STORAGE BOX	ONLINE	SILVER	
244	WAN NUR A'TIQAH BINTI WAN DRAMAN, MUHAMMAD SYAHMI BIN ABDULLAH, MUHAMMAD AMIR BIN ANUR HUSSIEN, WAN NUR AKMAL BIN NORDIN, DR. NURUL NAJWA BINTI MANSOR, TS. MUHAMMAD IKMAN BIN ISHAK, TS. MOHAMAD SUHAIMI BIN SHAHRIN, TS. MOHD HAIDIEZUL JAMAL BIN AB HADI	FKTM		REMOTE CONTROL LAWN MOWER FOR SCHOOL FIELD	ONLINE	SILVER	
245	Sam Shao Qi, Ir Mohd Shihabudin bin Ismail, Mohd Fayzul bin Mohammed, Mohamad Shaiful Ashrul bin Ishak	FKTM		Smart Powder Transfer System for Food Industries Filling Process	ONLINE	SILVER	
246	Ts Dr Nik Mizamzul binti Mehat, Siti Nurhasfifa binti Mohd Hasni, Nur Aliya Azzahra binti Abdul Rauf	FKTM		3D PRINTED RECYCLED POLYPROPYLENE/BAMBOO FILLER HONEYCOMB CORE FOR GREEN AND SUSTAINABLE STRUCTURES	PHYSICAL	SILVER	
247	Dr.Tengku Roslina Tuan Yusof, Dr. Abdullah Abdul Samat, Muhamad Arid Husairi, Dr. Nurul Najwa, Dr.Mariam Majid, Dr. shafiq Abdul Shukor	FKTM	Pusat Kecemerlangan Kajian dan Perkembangan Persekitaran Lestari	Development of shielded sprayer	ONLINE	SILVER	
248	Dr. Muhammad Nur Aiman bin Uda Prof. Madya. Dr. Subash C.B. Gopinath Dr. Zainal Abidin bin Arsat Ts. Dr. Fadhilnor bin Abdullah Ahmad Radi bin Wan Yaakub	FKTM	Pusat Kecemerlangan Penggunaan Biojisim UniMAP (CEBU)	A Nano-Green Synthesis Approach using Plant-Based Materials for Antimicrobial Agents	ONLINE	SILVER	
249	Dr Wan Mastura Wan Ibrahim, Prof. Dr. Mohd Mustafa Al Bakri Abdullah, Masdiyana Ibrahim, Dr Romisuhani Ahmad, Izzah Nadhirah Zalani, Izzah Atirah Harisliki, Raqibahtul Husna Azahar, Mohamad Arvin Mohd Ghani	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	AAM Adsorbents Adsorbents for Copper and Lead Removal	ONLINE	SILVER	
250	Nurul Najwa Mansor, Vanaja A/ Paree, Tg. Roslina Tn Yusof, Wan Nur A'tiqah Wan Draman	FKTM		Design and Development of an Adjustable Leg Elevator for Post-Surgery Patients	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
251	Mohamad Ezral Baharudin, Assoc. Prof. Dr. Azuwir Mohd Nor, Assoc. Prof. Ir. Dr. Sazli Mohd Saad, Dr. Mohd Zakimi Zakaria	FKTM		A Real Time Remote Monitoring of Heart Rate Bedridden Patients at Home	ONLINE	SILVER	
252	WAN NUR A'TIQAH BINTI WAN DRAMAN, DR NORMAH BINTI KASSIM, BAKRI BIN BAKAR, SHARWINRAAJ A/L MALATHIYALAGAN, ARVIND A/L BALASUDRAM, SUGIRTHAN A/L MUTUSAMY, SHAN KARSANA A/L PARAMASIVAN, DR NURUL NAJWA BINTI MANSOR	FKTM		DESIGN AND IMPROVEMENT OF AN ELECTRIC SCOOTER AS TRANSPORTATION IN KAMPUS PAUH, UniMAP	ONLINE	SILVER	
253	PROF. TS. DR. MOHD MUSTAFA AL BAKRI ABDULLAH, ASSOC. PROF. DR. SHAYFULL ZAMREE ABD RAHIM, ALLICE TAN MUN YIN, TS. LEONG KEAN WEI, IR. MOHD NASIR MOHD SAAD, MR. MUHAMMAD FAHEEM MOHD TAHIR, MRS. TS. ROZIE NANI BINTI AHMAD, EN. MOHD. NURHILMI BIN MOHAMAD.	FKTM	Pusat Kecemerlangan Penyelidikan Geopolimer dan Teknologi Hijau (CEGeoGTech)	Performance of Geopolymer Filled with Recycled Wasted Metal Particles for Rapid Tooling Applications	ONLINE	SILVER	
254	Dr. Mohammad Firdaus bin Abu Hashim, Ts. Dr. Meor Ahmad Faris bin Meor Ahmad Tajudin, Prof. Ts. Dr. Mohd Mustafa Al Bakri bin Abdullah, Assoc. Prof. Dr. Tan Soo Jin, Ir. Ts. Dr. Yusrina binti Mat Daud, Ir. Ts. Dr. Muhammad Syahmie bin Mohd Rasidi & Aiman binti Abdul Razak	FKTM	CEGeoGTech	HYBRID ECO-GEO TRUCK PANEL	PHYSICAL	SILVER	
255	DR. MUHAMMAD FIRDAUS BIN ABDEL MOTTALIB NOOR ADLINA BINTI ALAUDIN MUHAMMAD DANISH BIN BADRUL AZMI NUR SYAFIQAH BINTI MANSOR AINUL KHALID BIN MULYANI	FKTM		SMART RABBIT CAGE SYSTEM	PHYSICAL	SILVER	
256	Ts. Norsyahadah binti Yeop Wasir, Assoc. Prof. Dr. Muhamad Saifuldin Abdul Manan & Siti Nurshafika binti Fazil	FKTM		DESIGN AND DEVELOP GAUZE FOLDING TOOL EQUIPMENT FOR HOSPITAL USE	PHYSICAL	SILVER	
257	Mahalaksmi Gunasilan	FKTM		PULSED IMPRESSED CURRENT CATHODIC PROTECTION	ONLINE	SILVER	
258	Dr. Norawanis Abdul Razak, Zaid Akmal Mahadi & Norfazrinah Muhammad Ujiman	FKTM		Herbal Gummy Jelly OS	ONLINE	BRONZE	
259	Dr. Norawanis Abdul Razak, Norfazrinah Muhammad Ujiman & Zaid Akmal Mahadi	FKTM		C_NUT GUMMY JELLY	ONLINE	BRONZE	
260	MUHAMMAD AMIRUL SHAZANI BIN MOHD ROSLI, MS. RAS IZZATI BINTI ISMAIL, DR KHOR CHU YEE, DR ALINA RAHAYU MOHAMED, DR LEE YIT LENG, DR NORAWANIS ABDUL RAZAK, MS. NUR LAILINA BINTI MAKHTAR & DR MOHD RIDUAN JAMALLUDIN	FKTM		MUNTINGIA CALABURA SOLID BIOFUEL PELLETS	ONLINE	BRONZE	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
261	Ts. Dr. Syamir Alihan Bin Showkat Ali <sup>1</sup> Allice Tan Mun Yin <sup>1</sup> Annis Tan Mun Nga <sup>1</sup> Ezry Bin Edinolfi <sup>2</sup> Haliza Binti Zulkifli <sup>1</sup>	FKTM		Eco-Feed	ONLINE	BRONZE	
262	PUVARASAN A/L KATHIR GAMAM, NUR LAILINA MAKHTAR, RAS IZZATI ISMAIL, DR LEE YIT LENG, DR NORAWANIS ABDUL RAZAK	FKTM		DESIGN AND DEVELOPMENT OF AN AUTOMATICALLY CONTROLLED FISH WATER QUALITY MONITORING SYSTEM	ONLINE	BRONZE	
263	MUHAMAD ALIF IRFAN BIN MOHD RIDZWAN, MUHAMAD HAFFIZUL HAQIM BIN MAZLAN, MOHD IDZWAN BIN MAHA , TS. DR. FATHIN AYUNI BINTI AZIZAN	FKTM	INSAT	SMART SEMI-AUTOMATED PRECISION AGRICULTURAL TOOLS TO MONITOR CROP EXTRACTION AND CLASSIFICATION	ONLINE	BRONZE	
264	DR. NORAWANIS ABDUL RAZAK, MUHAMMAD TAZRI ABDULLAH, DR. LEE YIT LENG, MAIZURA JOLKILI, NOOR FATHONAH JAMALUDDIN, SRIYANA ABDULLAH, RAS IZZATI ISMAIL & NUR LAILINA MAKHTAR	FKTM		COSMECEUTICAL PROPERTIES OF DRIED KENAF LEAVES	ONLINE	BRONZE	
265	Dr. Nor Amalina bt Muhayudin, Assoc. Prof. Ir. Dr. Khairul Salleh bin Basaruddin, Assoc. Prof. Ts. Dr. Fathinul Syahir bin Ahmad Sa'ad, Assoc. Prof. Ts. Dr. Muhammad Juhairi bin Aziz & Assoc. Prof. Dr. Haniza binti Yazid	FKTM		A Synthetic Paediatric Spine	ONLINE	NONE	
266	Dr Norizah Binti Abd Karim, Assoc Prof Ts Dr Muhammad Mahyiddin Ramli, Prof Dr Che Mohd Ruzaidi Ghazali, Dr Shazlina Johari, Dr Ismariza Ismail, Dr Mohd Fairus Ahmad, Dr Mohd Nabil Ahmad Khalil, Mohd Irfan Fahmi Ahmad Zaini	FKTM.	INEE	REDUCED GRAPHENE OXIDE (rGO) FROM GRAPHENE OXIDE PRODUCED FROM OIL PALM TRUNK WASTE	PHYSICAL	GOLD	
267	1. EN. MOHD ERPI MOHD ALI 2. EN. AMEER FUHAILI MUHAMMAD HASHIM 3. EN. MUHAMMAD FANDY FAUZI 4. CIK NUR AISYA ROSLAN 5. Assoc. Prof. Ts. Dr. SHUHAIRIMI ABDULLAH	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	EMPOWERING EXHIBITION TROUGH DIGITAL ART AT MUSEUM KOTA KAYANG	ONLINE	GOLD	
268	Dr. Suffian Hadi Ayub, Nazathul Shahira Ahmad Noor, Dr. Julinawati Suanda, Dr. Mohd Yusof Zulkefli	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	RAWRimba - Rescue All Wild Rimba	ONLINE	GOLD	
269	Muhammad Nasri bin Haidar Ali, Hafizah Abdul Rahim, Dr Noorazeela Zainal Abidin, Dr Atikah Nor Johari and Assoc. Prof. Dr Tunku Salha Tunku Ahmad	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Bunion Socks	ONLINE	GOLD	
270	Dr. Mohd Shahidan Shaari, Mohd Juraij Abd Rani, Dr. Faiz Masnan, Dr. Nor Hidayah Harun.	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Kuznets Curve of Abuse: Economic Growth & Child Abuse.	ONLINE	SILVER	

# EKSPOR EKASIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
271	EVAWAYNIE VALQUIS MD ISA, ASSOCIATE PROFESSOR DR. UMMI NAIEMAH SARAIH, Ts. NORASHIKEN OTHMAN, DR. UMMI NOOR NAZAHIAH ABDULLAH, DR. WAHYUNI MASYIDAH MD ISA, ASSOCIATE PROFESSOR DR. NOORMAIZATUL AKMAR ISHAK, HANI NASUHA HADI IRAZMAN	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	SMART TROWELMACHINE FOR INDOOR SPORT COURT	ONLINE	SILVER	
272	Mohd Juraij Bin Abd Rani, Ariel Teo Yee Soon	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Manta-X	ONLINE	SILVER	
273	Dr. Mohd Shahidan Shaari, Mohd. Juraij Abd Rani, Dr. Faiz Masnan, Dr. Nor Hidayah Harun	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Kuznets Curve of Abuse: Economic Growth & Child Abuse	ONLINE	SILVER	
274	EVAWAYNIE VALQUIS MD ISA, DR. UMMI NOOR NAZAHIAH ABDULLAH, ASSOCIATE PROFESSOR DR. UMMI NAIEMAH SARAIH, DR. WAHYUNI MASYIDAH MD ISA, ASSOCIATE PROFESSOR DR. NOORMAIZATUL AKMAR ISHAK, DR. ALIANA SHAZMA AMIR AMIR, SYAHIDA KAMIL & SHAHIRA SA'ABAN	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	"TITO": SCISSORS FOR AUTISTIC CHILDREN	ONLINE	SILVER	
275	Dr Nor Irwani Abdul Rahman, Dr Amalina Mursidi, Muhammad Zakwan Abdul Rahman & Ahmad Zaim Zainal Abidin	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Hello Dentist	ONLINE	SILVER	
276	Wan Norsyafawati Wan Muhamad Radzi Goh Deng Zia	FPK		Care Senior Citizens App	ONLINE	SILVER	
277	DR. JULINAWATI SUANDA, DR. SUFFIAN HADI AYUB, MOHAMAD AQIL FITRI BIN MOHD ROSLI, IREENA NASIHA EBNU	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	THE OUTBREAK COLLECTIVE	ONLINE	SILVER	
278	Rhisiban Saravannan, Hafizah Abdul Rahim, Dr Noorazeela Zainol Abidin and Dr Atikah Nor Johari	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Coconut Harvesting Drone	ONLINE	SILVER	
279	Ts. Dr. Mohd Saiful Izwan bin Saadon (UMT) (CoESIS UniMAP), Assoc. Prof. Dr. Ummi Naiemah binti Saraih (CoESIS UniMAP), Assoc. Prof. Ts. Dr. Norshahrizan binti Nordin (CoESIS UniMAP), Prof. Ts. Dr. Mohamad Rosni bin Othman (UPNM), Assoc. Prof. Ts. Dr. Ahmad Faizal bin Ahmad Fuad (UMT), Dr. Mohd Sharifuddin bin Ahmad (UMT), Dr. Norlinda Mohd Rozar (UMT) & Dr. Loke Keng Bin (UMT)	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	THE APPLICATION OF JOB SEARCHING PORTAL FOR MARITIME HRM COURSE	ONLINE	SILVER	
280	EN. MOHD ERPI MOHD ALI EN. AMEER FUHALI MUHAMMAD HASHIM EN. MUHAMMAD FANDY FAUZI CIK NUR AISYA ROSLAN PROF MADYA DR SHUHAIRIMI ABDULLAH	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	DESIGN AND IMPLEMENTATION OF AR TOUR GUIDES AT KOTA KAYANG MUSEUM	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
281	Nor Fadilah Binti Nor Shahid Puan Syahira Binti Sa'aban Cik Syahida Binti Kamil Dr. Julinawati Binti Suanda Cik Evawaynie Valquis Binti Md. Isa	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	HEAVY DUTY HELPER	ONLINE	BRONZE	
282	Syahida Binti Kamil, Syahira Binti Sa'aban, Evawaynie Valquis Binti Md. Isa, Dr. Julinawati Binti Suanda, Dr. Aliana Shazma Amir Binti Amir & Nur Syahirah Binti Johari	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	ANTI-SNATCH CHAIRS	ONLINE	BRONZE	
283	Nur Suriaty Daud @ Fhiri, Prof. Madya Dr. Shuhairimi Abdullah, Dr. Yasmin Ahmad, Noor Salwani Hussin & Prof. Madya Dr. Abdul Jalil Ramli	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	MODEL USAHAWAN SOSIAL ALAM SEKITAR (MUSAS) TINGKATKAN KESEDARAN ALAM SEKITAR	ONLINE	BRONZE	
284	Fang Jing Tiong, Dr. Noorazeela Binti Zainol Abidin & Hafizah Binti Abdul Rahim	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Smart Trolley	ONLINE	BRONZE	
285	Nang Nashirah Nik Dahalan, Dr. Yasmin Ahmad, Prof. Madya. Dr. Mardzelah Makhsin	FPK		Model Personaliti Kepelbagaian Budaya Dalam Kalangan Bakal Guru	ONLINE	BRONZE	
286	Nor Azmil Bin Nor Hasan Azmi, Dr. Noorazeela Binti Zainol Abidin & Hafizah Binti Abdul Rahim	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	K Ring Dry Fish Machine	ONLINE	BRONZE	
287	WAN NORSYAFAWATI W. MUHAMAD RADZI, MOHD AFFENDI AHMAD POZIN, ATIKAH NOR JOHARI, SITI NOR JUNITA MOHAMAD RADZI	FPK		EASY BOOKKEEPING RECORD APPS FOR MICRO ENTERPRISES	ONLINE	BRONZE	
288	Senior Lecturer. Dr. Nurul Naimah Binti Rose, Senior Lecturer. Dr. Mohd Arsad Bin Johanis, Prof. Dr. Shuhairimi Bin Abdullah, Senior Lecturer. Dr. Aida Shakila Binti Ishak, Senior lecturer. Dr. Nor Hafizan Habib Sultan, Mohd Erpi Bin Mohd Ali, Research Master Student. Muhamad Efrizal Bin Amran.	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Model kerangka Konsep Terapi Berfokus Solusi dan Orientasi Kaunseling Malaysia.	ONLINE	BRONZE	
289	DR. ALIANA SHAZMA AMIR BINTI AMIR & ENCIK CHE MUHAMMAD QUAYYUM BIN CHE DIN	FPK		AL-ZAMDA ISEARCH SENSOR DETECTOR	ONLINE	BRONZE	
290	DR. ALIANA SHAZMA AMIR BINTI AMIR, ENCIK CHE MUHAMMAD QUAYYUM BIN CHE DIN, CIK EVAWAYNIE VALQUIS BINTI MD. ISA & CIK SYAHIDA BINTI KAMIL	FPK		AL-ZAMDA SCENTED SHOE RACK	ONLINE	BRONZE	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
291	Dr Aida Shakila binti Ishak, Dr Nurul Naimah binti Rose, En. Mohd Erpi bin Mohd Ali & Dr Nurhidayah binti Marzuki @ Yahaya	FPK		KERANGKA KONSEPTUAL FAKTOR PERAMAL PENYALAHGUNAAN DADAH DALAM KALANGAN REMAJA	ONLINE	BRONZE	
292	Dr Nor Irwani Abdul Rahman, Mohd Rosli Abdul Ghani, & Almera Rosli	FPK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	ROADSIDE RESCUE	ONLINE	BRONZE	
293	DR. NURHIDAYAH BINTI MARZUKI@YAHAYA, DR. NUR QURRATUL 'AIN BINTI ISMAIL, DR. NUR HAFIFA ISWATI BINTI ISHAK, DR. FAIZ BIN MASNAN, DR. NAZRA ALIFF BIN NAZRI, CIK SITI BALKIS BINTI MKM MOHAMED IBRAHIM	FPK		Aplikasi e-KeWa	ONLINE	NONE	
294	Assoc Prof Ts Dr Mohammad Harith Amlus, Dr Muhammad Faizal A Rani, Dr Atikah Nor Johari, Puan Hafizah A Rahim, Ir Ahmad Zaidi Abdullah	FPK	Pusat Kecemerlangan Kejuruteraan Sukan (SERC)	Paddy Farm Innovation Cycles to increase output performance	ONLINE	NONE	
295	MOHD SHAHRIL AFFANDI BIN ABDUL MAJID, MOHD NASIR BIN SAID, NOOR AIZWAN BIN AZAHARI	ILP KEPALA BATAS	ILP KEPALA BATAS, Lot 2022, Jalan Tun Hamdan Sheikh Tahir, Kepala Batas, Pulau Pinang	IoT BASED SPEED METER TRACKING	ONLINE	SILVER	
296	Azila Md Sudin, Assoc. Prof. Ts. Dr. Suliadi Firdaus Sufahani, Assoc. Prof. Dr. Wan Mohd Khairy Adly Wan Zaimi	IMK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	Nutritious Digital Menu System For Malaysian Religious Primary School Children: Improving Good Memories	ONLINE	GOLD	
297	Wan Noor Afifah Wan Ahmad, Assoc. Prof. Ts. Dr. Suliadi Firdaus Sufahani, Assoc. Prof. Dr. Wan Mohd Khairy Adly Wan Zaimi, Ts. Inv. Mahmod Abd Hakim Mohamad, Assoc. Prof. Dr. Mohd Saifullah Rusiman, Prof. Dr. Rozaini Roslan, Dr. Mohd Zulariffin Md Maarof, Dr. Muhamad Ali Imran Kamarudin	IMK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	New Fundamental Theory in Solving The Royalty Payment Problem with SAPBR-Algorithm	ONLINE	GOLD	
298	Ts. Muhamad Hafiz Masran, Ts. Dr. Wan Nor Munirah Ariffin, Nornadia Mohd Yazid, Haslina Zakaria, Siti Rohana Goh Abdullah, Dr. Mohammad Fadzli Ramli, Dr. Shakila Saad	IMK		RFID Traceability System for Waste Container Management in Sustainable Environments	ONLINE	GOLD	
299	Ts. Dr. Wan Zuki Azman Wan Muhamad (Leader), Assoc. Prof. Dr. Zainor Ridzuan Yahya, Assoc. Prof. Ts. Dr. Ahmad Kadri Junoh, Assoc. Prof. Dr. Khairur Rijal Jamaludin, Dr. Faizir Ramlie, Dr. Mohd Yazid Abu, Dr. Nolia Harudin	IMK	Pusat Kecemerlangan Pengkomputeran Termaju	Mahalanobis Taguchi System Calculator for Diagnosis	ONLINE	SILVER	
300	Ts. Dr. Wan Nor Munirah Ariffin, Mr. Yusoff Hussin	IMK	Pusat Kecemerlangan Social Innovation and Sustainability (SIS)	SHELF-OPTIMIZER (Tool to help business to identify the right products to be allocated on the right shelves.)	ONLINE	SILVER	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
301	MUHAMAD ABDULLAH BIN ISMAIL, MOHD ALIFF AIZUDDIN BIN AWANG, MOHAMMAD SAFFUAN DANIEL BIN MOHAMMAD SAFFRI, FARIEZ HAIKAL BIN MOHD ABDULLAH, MUHAMMAD KAMARUL HISYAM BIN RAHMAN, ABDUL HANAN BIN MOHD ZUKI	KV SHAS KUALA LIPIS		GENERATOR AIR CONDITIONING 4R (RECYCLE, REUSE, REDUCE & REFORM)	ONLINE	SILVER	
302	MOHAMAD BASIR BIN BAHARUDIN, ABDUL LATIF BIN ABU BAKAR, MOHAMAD SYAHRUL AIMAN BIN ABDUL HAFIZ, MUHAMMAD DHIYAUDDIN FITRI BIN SHAMSOL EFINDE, NURUL IZZAH BINTI ALEXANDER, NURUL NADIAH AQILAH BINTI IZHAN EFFENDI	KV SHAS KUALA LIPIS		HOME AUTOMATION WITH ANDROID APP	ONLINE	SILVER	
303	PgR (Bersekutu) ROSNIDA BINTI BAHARUDDIN, OOI MAY FEN, NURUL IFFAH BINTI ZAFFAR, ANG YI JIA	POLIMAS		BUS BOOKING SYSTEM	ONLINE	SILVER	
304	PgR (Bersekutu) ROSNIDA BINTI BAHARUDDIN, NUR HILWANI BT MOHD RADZI, AIN WAHIDAH BT IZMAN, NURSASYA AINA BINTI ANUAR	POLIMAS		STOCK MANAGEMENT SYSTEM (iSTOCK)	ONLINE	SILVER	
305	NUR ATHIRAH FATIAH MUHD KHAIRUL ANUAR, ABDULLAH FAHMI BINTI ABD. MANAF, KU ANIS NAJMI FARISYA BINTI KU NIZAN, ABDUL QAYYUM ZUHDI BIN MOHD RIZAL, SHARIPAH BINTI ZAKARIA, MARYAM BINTI HAMZAH, ZAITON BINTI NAYAN, ROSMALIZA BINTI KASSIM, ECO-CT FROM PLASTIC WASTE.	SK PIDA TIGA		ECO-CT FROM PLASTIC WASTE	ONLINE	SILVER	
306	AZIZAH BINTI HAMZAH, SHARIFAH NORAZIAH BINTI SYED ALI, SITI SOFIAH BINTI ABDULLAH, MUHAMMAD ADAM HAKIM BIN SHAHRIMAN, AHMAD ARYAN RIZQI BIN AHMAD AFROL RIZAM, MUHAMMAD RAYYAN SYAHEEF BIN MUHD NUR RAHMAN, ADAM FAWWAZ BIN MUHAMMAD FATHEHI, MUHAMMAD UZAIR HARITH BIN MOHAMAD RIDZUAN	SK SENA		ASSISSTIVE DEVICE APPLICATION for MAIZE (ADAM)	PHYSICAL	SILVER	
307	Najla Humairah Mohd Najmuddin, Hanis Safiyya Mohd Hafiz, Aya Sofya Ahmad Fitri	SK SENA		EGGY-MAC: User Friendly Egg Grading Machine	PHYSICAL	SILVER	
308	AZIZAH BINTI HAMZAH, SHARIFAH NORAZIAH BINTI SYED ALI, SITI SOFIAH BINTI ABDULLAH, MUHAMMAD ADAM HAKIM BIN SHAHRIMAN, AHMAD ARYAN RIZQI BIN AHMAD AFROL RIZAM, MUHAMMAD RAYYAN SYAHEEF BIN MUHD NUR RAHMAN, ADAM FAWWAZ BIN MUHAMMAD FATHEHI, MUHAMMAD UZAIR HARITH BIN MOHAMAD RIDZUAN	SK SENA		ASSISSTIVE DEVICE APPLICATION for MAIZE (ADAM)	ONLINE	SILVER	
309	CHE NORHAMIRA BINTI CHE MOHD, NORBAYA BINTI ABD RAHMAN, MUHAMMAD IZZUL IMAN BIN MOHD AZIZI, PUTRA AHMAD DANISH ZAQQWAN BIN RAZIE, ADRIZAL NAJMI BIN ADNAN, JASQMIN BINTI MOHD ALI SADEKIN, NUR AIN UM AIRAH BINTI YUSOF, NUR IZZATUL ZAHRA BINTI MOHD AZIZI	SMK DATO' RAZALI ISMAIL		FOODDECK (A SMART FOOD THERMOS)	ONLINE	GOLD	
310	Lutfiyah Zahra binti Mohd Farouk, Safiah Salihah binti Saifudin, Nur Irdina Madihah binti Umar	SMKAP ALAWIYAH, KANGAR		IoT based Smart Agriculture	ONLINE	BRONZE	

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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
311	Zara Aisyah Binti Fathinul Syahir (Team Leader), Nur Sofia binti Mohd Faiz & Wan Nor Irdina Bratisya binti Muhammad Azlee	SRK Seri Indera		Harumanis Gummy Candy "A Good Source of Fiber"	PHYSICAL	GOLD	
312	Ts. Dr. Abd Shukur Ja'afar, Ts. Nur Alisa Ali, Ir. Ts. Dr. Nik Mohd Zarif Hashim, Ts. Dr. Adam Wong Yoon Khang, Ts. Ahmad Fairuz Mohd Amin, Albert Feisal @ Muhd Feisal Ismail, Dr. Mahmud Dwi Sulistiyo, Dzaki Dzaududin Sabaruddin	Telkom University		Enhanced Wireless Node-to-Node IoT Hydroponic System	ONLINE	GOLD	
313	I. ALYAA NADIA BINTI MUHAMMAD ASSUAD II. NUR ATIQA BINTI MOHD AMIR III. NUR HANISAH BINTI MUHAMMAD HADZIR IV. FUAD AINUDDIN BIN ISMAIL SHAH V. HJ MUHAMMAD FAIZAL ZAINON	UiTM		DOXTEJOINT CREAM : INNOVATIVE PAIN RELIEVER CREAM	PHYSICAL	GOLD	GRAND AWARD 1ST PLACE
314	I. IR. TS. MOHAMED SYAZWAN OSMAN II. DR. NURULHUDA AMRI III. SITI NUR IRDINA AFIQAH BINTI NORAZMI IV. JUNI MAYAMIN MOHD KHAIRI V. AINA SYAMIMI NOOR HELMY	UiTM		SANO-TIVE BOOSTER	PHYSICAL	SILVER	
315	Ku Nuri Syazana Ku Ab Rahim, Anis Syuhada Saufi, Nurul Aliah Farhana Kamarulzaman, Aina Syamimi Noor Helmy, Juni Mayamin Mohd Khairi, Huzairy Hassan, Ir. Ts. Mohamed Syazwan Osman, Dr Nurulhuda Amri	UiTM		Mag Save: Innovative Magnetic Nanoparticles Encapsulated In Polymeric Macroshpere for Water Remediation	PHYSICAL	BRONZE	
316	Dr. Muhammad Nurfaiz bin Abd. Kharim, Assoc. Prof. Dr. Aimrun Wayayok, Assoc. Prof. Dr Ahmad Fikri bin Abdullah, & Prof. Dr. Abdul Rashid Mohamed Shariff	UMK		Precise Fertilization with UAV Application in Rice Farming	PHYSICAL	GOLD	
317	Ts. Dr. Siti Nuurul Huda Mohammad Azmin, Shahirah Ahamad, Nur Dini Dayana Zamzuri, Dr. Mohd Shukri Mat Nor, Associate Prof. Ts. Dr. Palsan Sannasi Abdullah, Ts. Dr. Ch'ng Huck Ywih & Ts. Tengku Halimatun Sa'adiah T. Abu Bakar	UMK	-	COOLIT-MELON NANO LOTION : A NANO LOTION FROM WATERMELON RIND	PHYSICAL	GOLD	BEST INVENTION AWARD (BIOTECHNOLOGY, MEDICAL DEVICE, PHARMACEUTICALS & HEALTH)
318	Assoc. Prof. Ts. Dr. Khairiyah Mat, Ts. Dr. Nor Dini Rusli, Ts. Dr. Hasnita binti Che Harun, Ts. Dr. Zulhisyam bin Abdul Kari, Dr. Mohammad Mijanur Rahman, Mr. Mohd bin Mahmud, Dr. Syed Muhammad Al-Amsyar & Assoc. Prof. Dr. Lee Seong Wei	UMK		ProFSURE: Poultry Feed from Sustainable Resources	ONLINE	GOLD	
319	DR. ZULHISYAM ABDUL KARI, PROF. MADYA DR. LEE SEONG WEI, DR. NOR DINI RUSLI, PROF. MADYA DR. KHAIRIYAH MAT, DR. SUNIZA ANIS MOHAMAD SUKRI, DR. NIK SHAHMAN NIK AHMAD ARIFF AND DR. MUHAMMAD ANAMUL KABIR	UMK		SOY GROWTH BOOSTER- A HEALTHY FISH FEED	ONLINE	GOLD	
320	Ts. Izati Nabila binti Marzuki, Dr. Tengku Fauzan binti Tengku Anuar, Ts. Ariff bin Ariffin, LAr. Ayub bin Awang, Nadya bin Ahmad Kamal, Dr. Firdaus Naif bin Omran Zailuddin	UMK		Learning Based Activity of Surah Lukman Curriculum Using Augmented Reality Technology in Delivering Da'wah	PHYSICAL	GOLD	



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No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
321	Ts. Tengku Halimatun Sa'adiah binti T Abu Bakar, Ts. Dr. Suhana binti Zakaria, Ts. Dr. Norhafizah binti Md Zain, Ts. Dr. Maryana binti Mohamad Nor & Ts. Dr. Siti Nuurul Huda binti Mohammad Azmin	UMK		Social Entrepreneurship Framework: Agro Based Youngpreneur Incubator for University students	PHYSICAL	SILVER	
322	Dr NIK ALNUR AULI BT NIK YUSUF, PROF MADYA DR MAHANI BT YUSOFF, DR BASHREE BIN ABU BAKAR, PROF MADYA DR Nor Hakimin Bin Abdullah, DR ARLINA BT ALI, DR Norfadhilah Binti Ibrahim, DR. Nadiah Bte Ameram	UMK		BIO-MULCH	ONLINE	SILVER	
323	Gs. Dr. Amal Najihah binti Muhamad Nor, En. Nor Hizami bin Hassin, Dr. Muhamad Azahar bin Abas, Dr. Siti Aisyah binti Nawawi, Dr. Norfadhilah binti Ibrahim, Prof Madya Ts. Dr. Mohamad Faiz bin Mohd Amin, Cik Rohazaini binti Muhammad Jamil, Dr. Kamarul Ariffin bin Hambali	UMK		SPATIAL PREDICTION OF ECOSYSTEM SERVICES FOR SUSTAINABLE CITIES IN MALAYSIA	ONLINE	SILVER	
324	Dr. Wan Saiful Nizam bin Wan Mohamad, Dr. Hartini binti Hashim, En. Mohd Azri bin Mohd Jain Nordin, Dr. Yeo Lee Bak, Dr. Nor Hamizah binti Abdul Hamid, Dr. Noorliyana binti Ramlee, Dr. Nurul Izzati binti Othmani, Pn. Syahidah Amni binti Mohamed	UMK		DRONE APPLICATION IN LANDSCAPE ARCHITECTURE STUDIO SUBJECTS	ONLINE	SILVER	
325	Dr. Nor Hamizah binti Abdul Hamid, Dr. Muhamad Ezran bin Zainal Abdullah, CIDe, Jarfrulhizam bin Jaafar, Ts. Mohd Firuz bin Mohd Anwar, Siti Nurul Diana binti Sukri, Muhammad Faqih Shazuar bin Ramly	UMK		FLUX 2.0: Sustainable Furniture Production with Revolutionary Modular 3D Printed Joinery System	ONLINE	GOLD	
326	Ts. Dr. Hoh Wei Siang, Kong Choon	UMP		KID LEARN	ONLINE	SILVER	
327	1. Nur Alif Farhan Bin Mohd Ali (Team Leader), 2. Muhammad Auzaie Bin Mohd Sharif, 3. Mohamad Dzul Fazry Bin Mohd Zulkeffli, 4. Muhammad Danni Bin Marzuki, 5. Muhammad Azib Fikrie Bin Azron Hairie, 6. Ts. Zaiton Binti Wahid (Team Advisor), 7. Assoc. Prof. Dr Ahmad Zainal Abidin Bin Abd Razak(Team Advisor).	UPSI		PORTABLE CHIPS COMPRESSOR (POCCOM)	ONLINE	SILVER	
328	Ir. Ts. Dr. Lailatul Harina Binti Paijan, Assoc. Prof. Ir. Ts. Dr. Mohd Hadzley Bin Abu Bakar, En. Zulkifli Bin Ahmad, Ts. Dr. Mohd Fauzi Bin Mamat, Ts. Norfariza Binti Ab Wahab, Ts. Dr. Mohd Basri Bin Ali, Ts Mohd Azlan Bin Mohammed, Ahmad Syahrazi Bin Anuar & Mohamad Amir Hafiz Bin Mohd Yusri.	UTeM		LOW COST AND LIGHT WEIGHT COMPOSITE REINFORCED PLUNGER (LCRP) FOR SAWIT RIPPER	PHYSICAL	GOLD	
329	Ts. Dr. Mohd Fauzi Bin Mamat, Muhammad Hasif bin Zulkifli, Muhammad Syafiq Izwan bin Md Akhir, Ir. Ts. Dr. Lailatul Harina binti Paijan, Prof. Madya Ir. Ts. Dr. Mohd Hadzley Bin Abu Bakar, Ts. Dr. Mohd Basri bin Ali, Ts. Mohd Azlan bin Mohamed, Ts. Mohd Hairizal bin Osman, Ts. Mohd Idain Fahmy bin Rosley	UTeM		Duo Microcapsule Strategy - Smart Epoxy Coating	PHYSICAL	GOLD	
330	Nor Faizah Haminudin, Mahanum Mohd Zamberi, Sushella Edayu Mat Kamal, Muhammad Jeffri Sufyan, Muhammad Harith A Majid, Nur Aqilah Mohd Nizam, Hairul Bakri, Fadhilah Shikh Anuar	UTeM		CRAY-Oil	ONLINE	GOLD	

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## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
331	Dr. Nur Hazwani Binti Mokhtar, Ts Dr Nur Fatimah Binti Azmi, Prof Madya Dr Muhammad Zahir Bin Hassan, Muhammad Aiman Affandi Bin Mat Zaki, Dr Kamariah Binti Md Isa, Dr Amrik Singh Phuman Singh, Dr Mizah Binti Ramli, Zulhaidi Bin Mohd Jawi	UTeM		ERGONOMICS & ECONOMY DRIVING SIMULATOR	ONLINE	GOLD	
332	HAIRUL BIN BAKRI	UTeM		THE VOTE	ONLINE	GOLD	
333	Ts. Dr. Nur Fatimah Binti Azmi, Dr. Nur Hazwani Binti Mokhtar, Ts. Dr. Faiz Bin Arith, Alya Azwa Binti Azwan	UTeM		VISUALIZING ANTHOCYANINS: COLORIMETRIC ANALYSIS OF BLUE MAIZE	ONLINE	GOLD	
334	Ts. Dr. Rohana binti Abdullah, Ts. Dr. Amir Hamzah bin Abdul Rasib, Dr. Hadyan Hafizh, Ir. Ts. Dr. Anuar bin Mohamed Kassim, PM. Ir. Dr. Mohd Hadzley bin Abu Bakar, Mohamad Aiman Azami bin Azmi, Pang Chang Tze	UTeM		Automatic Assembly Part Detection System (ASSIST) using Machine Vision for Autonomous Part Recognition and Quality Control	PHYSICAL	SILVER	
335	Ts. Dr. Norfariza binti Ab Wahab, Prof. Madya Ir. Ts. Dr. Mohad. Yuhazri bin Yaakob, Tc. Basri bin Bidin, Tc. Zulkifli bin Jantan, Muhammad Wafiuiddin bin Suhami, Muhammad Nadzmi bin Mohd Zailan, Jeremiah Wan, Norhafizan bin Hawari, Nur Liyana binti Nasarudin	UTeM		MiDORI	ONLINE	SILVER	
336	TS. DR. WAN MOHD YA'AKOB BIN WAN BEJURI (UTeM), ASSOC. PROF. DR. MOHD MURTADHA BIN MOHAMAD (UTM)	UTeM		Adaptive Noise and Sample Size Special Strategies Resampling Particle Filter (ANSSSS-PF) for Inertial Sensor based Rapid Flood Emergency Response	ONLINE	SILVER	
337	Ts. Dr. Adam Wong Yoon Khang, Hasvin Raj A/L Meganathan, Zulhairi Bin Othman, Azman bin Awang Teh, Dr. Jamil Abedalrahim Jamil Alsayaydeh, Johar Akbar Bin Mohamat Gani, Ts. Ahmad Idil Bin Abdul Rahman, Ts. Dr. Abd Shukur Bin Ja'afar	UTeM		Smart Hydroponic System Monitoring using IoT Mesh Network based on ESP8266	ONLINE	SILVER	
338	Dr. Zaheera Zainal Abidin, Assoc. Prof. Dr. Zuraida Abal Abas, Dr. Siti Azirah Asmai, Dr. Nurul Azma Zakaria, Ts. Hidayah Rahmalan, Ts. Ahmad Fadzli Nizam bin Abdul Rahman, Esuway Mardaid dan Ts. Nor Aimuni Rashid.	UTeM		Flood Emergency Response Dashboard	ONLINE	SILVER	
339	Ms. Ainaa Mardiah Binti Sabri, Ts. Dr. Norfazillah Binti Talib, Dr. Amiril Sahab Bin Abdul Sani	UTHM		NEW APPROACHES METALWORKING FLUID JATROPHA -HYBRID ADDITIVES NANOFLUIDS	ONLINE	GOLD	
340	Dr. NORHADILAH BINTI ABDUL HAMID, NURUL IZZATY BINTI YUNOS, Gs. Dr. EDIE EZWAN BIN MOHD SAFIAN, PROF. MADYA Dr. MOHD LIZAM BIN MOHD DIAH, Gs. Dr. BURHAIDAH BINTI BURHAN, TS MAT TAWI BIN YAACOB, SITI NORZIAH BINTI ISMAIL	UTHM		KAPI-Game Apps for Obesity Kids	ONLINE	SILVER	

# EKSP0 REKACIPTA UniMAP 2023 (EREKA 2023)

## FULL RESULTS



No.	LIST OF PARTICIPANTS	FACULTY	COE	TITLE OF INVENTION	ONLINE/ PHYSICAL	Medal	SPECIAL AWARD
341	KHAIRUL ASYRAF BIN MOHD RODZI, Ts. SOFFIAN BIN OSMAN, SUHAILAH BINTI M MOHD SIRAJ	UTHM		ADDRESSING SECURITY AND ARCHITECTURE THROUGH DEVELOPMENT OF INNOVATIVE HOUSING WINDOW IN MALAYSIA	ONLINE	SILVER	
342	Dr. AZITA BINTI ALI, PROF. MADYA Ts. Dr. AFFERO BIN ISMAIL, NUR AFIQAH SOHOD	UTHM		DEVELOPMENT OF BASIC 3D ANIMATION APPLICATION FOR RECYCLING	ONLINE	SILVER	
343	Siti Amira Othman	UTHM		Urine- Based Biosensor for Hydrogen Peroxide Detection	ONLINE	BRONZE	
344	Assoc. Prof. Dr. Rohani Abdullah, Md Zaini Hamidon, Dr. Mohd Fitri Yusoff, Dr. Amirul Haqem Abd. Ghani, Sharima Ruwaida Abbas, Nik Mohd Baidzani Haddad Ibrahim, Nurul Hidayah Noorainual & Nur Fatin Nasuha Shamas	UUM		MALTEN DIO KEYDROP	PHYSICAL	SILVER	