Research

UMP wins Special Award and 14 gold medals in ITEX 2022

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KUALA LUMPUR, 27 May 2022 - Research of Universiti Malaysia Pahang (UMP) won the Special Award, 14 gold medals and ten silver medals in the International Exhibition of Invention, Innovation and Technology 2022 (ITEX) held at Kuala Lumpur Convention Centre (KLCC) on 26 and 27 May 2022.

The research product of Associate Professor Dr. Saiful Anwar Che Ghani from the Faculty of Mechanical and Automotive Engineering Technology (FTKMA) titled Smart-Steadi for Efficient Agarwood Essential Oil Extraction won the gold medal and the Best Invention Universities & Educational Institutions Special Award.

Associate Professor Dr. Saiful said, the Smart-Steadi innovation is used to increase the yield of agarwood oil extraction and at the same time reduce production costs.

“The idea of this innovation was initiated when I was involved in several studies in building industrial-scale agarwood processing facilities with local and foreign agarwood entrepreneurs.

“The agarwood business can be turned into an industry, for example, the collaboration of UMP under the Centre for Bioaromatic Research with PIJ Agarwood, a subsidiary of the state of Johor which is currently completing a 38-system agarwood extraction facility.

“The development of this industry in our country will open up more job opportunities to the community,” he said.



Meanwhile, the UMP Vice-Chancellor, Professor Dato' Ts. Dr. Yuserrie Zainuddin was proud and he expressed appreciation to the researchers with this achievement.

A total of 24 UMP research products exhibited in ITEX received recognition.

He was present to meet the researchers and see the research products on display.

Also present was the Deputy Vice-Chancellor (Research & Innovation), Professor Ts. Dr. Kamal Zuhairi Zamli.

ITEX is an annual exhibition of international inventions and innovations attended by researchers from within and outside the country.

Results of International Exhibition Invention, Innovation and Technology 2022 (ITEX)

NO.	TITLE	CATEGORY	NAME OF MAIN INVENTOR	FACULTY	AWARD
1	A GUI FOR PREDICTING THE QUALITY PARAMETERS OF DEEP FRIED FOODS	INDUSTRIAL DESIGN	TS. DR. NORAZALIZA MOHD JAMIL	CENTRE FOR MATHEMATICAL SCIENCES	SILVER
2	UHF RFID READER ANTENNA	TELECOMMUNICATION	EN. MOHD HISYAM MOHD ARIFF	FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY	SILVER
3	ECO-SGcrete : WASTE TO PROSPERITY	BUILDING & CONSTRUCTION	TS. DR. MOHD FAIZAL MD JAAFAR	FACULTY OF CIVIL ENGINEERING TECHNOLOGY	SILVER
4	S-TOR: DECISION MAKING METHOD FOR CONFLICTING MULTI-CRITERIA PROBLEM	AUTOMATION	DR. NOR IZZATI BINTI JAINI	CENTRE FOR MATHEMATICAL SCIENCES	SILVER
5	AFMA: AUTOMATED FERTILIZER MIXER THROUGH MOBILE APPLICATION	AGRICULTURE	TS. DR. ROSHAHLIZA M RAMLI	FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY	GOLD
6	LACTOBACILLUS PLANTARUM PROBIOTICS FOR GENUINE BUTTER PRODUCTION IN FOOD TECHNOLOGY	AGRICULTURE	TS. DR. NORAZLIANIE BINTI SAZALI	COLLEGE OF ENGINEERING	GOLD
7	MODIFIED TAMANU PLANTS-BASED OIL AS METAL WORKING FLUIDS (MWFs)	AUTOMATION	DR. AMIRIL SAHAB BIN ABDUL SANI	FACULTY OF MANUFACTURING AND MECHATRONIC ENGINEERING TECHNOLOGY	GOLD
8	MANGA. RE-ENGINEERED: INNOVATIVE COMIC FOR STEM EDUCATION	EDUCATION	DR. LUQMAN HAKIM AHMAD SHAH	FACULTY OF MECHANICAL AND AUTOMOTIVE ENGINEERING TECHNOLOGY	GOLD
9	OPTIMISATION OF SVM USING FEATURE SELECTION WITH METAHEURISTIC ALGORITHM TO DIAGNOSE BREAST CANCER	ICT	DR. NOORAZLIZA SULAIMAN	FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY	SILVER

10	MULTIPLE OUTPUT OF AUTOMATIC CUPPING SUCTION SYSTEM	MEDICAL/HEALTH	TS. DR. MOHD RIDUWAN BIN GHAZALI	FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY	SILVER
11	CLINKROOF: THE SUSTAINABLE GREEN ROOF SYSTEM BASED ON PALM OIL WASTE PRODUCT	BUILDING & CONSTRUCTION	DR. KHAIRUL ANUAR SHAHID	FACULTY OF CIVIL ENGINEERING TECHNOLOGY	GOLD
12	MICROENCAPSULATED HONEY FOR INTELLIGENT AND FUTURE PAINT	MATERIALS	TS. DR JULIAWATI BINTI ALIAS	COLLEGE OF ENGINEERING	SILVER
13	HYDROPHOBIC PANEL FROM OIL PALM TRUNK WASTE FOR PANELING PRODUCT (DRYPANEL)	MATERIALS	TS. DR. NURJANNAH SALIM	FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY	GOLD
14	AuSR: AUTHENTICATION AND SELF RECOVERY SOFTWARE	ICT	TS. DR. FERDA ERNAWAN	FACULTY OF COMPUTING	GOLD
15	GBioPatch: BIO-ACTIVES PATCHES BASED GREEN NANOFILLER	MEDICAL/HEALTH	DR. SITI MAZNAH KABEB	FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY	SILVER
16	Q-CET: QUANTITATIVE CHEMICAL EXPERT TOOL	MEDICAL/HEALTH	TS. DR. HANIDA ABDUL AZIZ	FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY	GOLD
17	C-19 HIRAO: COVID 19 HAZARD IDENTIFICATION AND ASSESSMENT OF RISK AND OPPORTUNITIES (Covid-19 Risk Management System)	MEDICAL/HEALTH	PROFESOR MADYA DR. EZRIN HANI SUKADARIN	FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY	SILVER
18	I-ERA SYSTEM (Initial Ergonomic Risk Assessment System)	MEDICAL/HEALTH	DR. MIRTA WIDIA	FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY	GOLD
19	FLOOD MITIGATION BY PERVIOUS CONCRETE PAVEMENT	BUILDING & CONSTRUCTION	PROFESOR MADYA DR. RAMADHANSYAH PUTRA JAYA	COLLEGE OF ENGINEERING	SILVER
20	MONTE-CARLO SIMULATOR: PREDICTION TIME OF THE AMMONIA DELIVERY SCHEDULING	ENVIRONMENTAL/ENERGY	PROFESOR MADYA DR. NORHAYATI BINTI ROSLI	CENTRE FOR MATHEMATICAL SCIENCES	GOLD

21	GREENFUEL-pellet: RENEWABLE SOLID BIOFUEL FROM BIOMASS	ENVIRONMENTAL/ENERGY	DR. SURIYATI BINTI SALEH	FACULTY OF CHEMICAL AND PROCESS ENGINEERING TECHNOLOGY	GOLD
22	SMART-STEADI FOR EFFICIENT AGARWOOD ESSENTIAL OIL EXTRACTION	EQUIPMENT	PROFESOR MADYA DR. SAIFUL ANWAR CHE GHANI	FACULTY OF MECHANICAL AND AUTOMOTIVE ENGINEERING TECHNOLOGY	GOLD
23	Pro-B : PROTECTIVE HEADGEAR BANDANA FOR SEPAK TAKRAW PLAYER	SPECIAL CARE	DR. NASRUL HADI JOHARI	FACULTY OF MECHANICAL AND AUTOMOTIVE ENGINEERING TECHNOLOGY	GOLD
24	SUN-MQL: SUSTAINABLE NANOLUBRICANT MINIMUM QUANTITY LUBRICATION SYSTEM	ENVIRONMENTAL/ENERGY	PROFESOR TS. DR. MD MUSTAFIZUR RAHMAN	COLLEGE OF ENGINEERING	GOLD

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