

## ARC2025 INTERACTIVE POSTER COMPETITION

Poster Number	Poster Title	Institution(s)	Session	Team	Contact
<b>Session: Agricultural Engineering</b>					
AGE-01	Design of a Low-Cost Coffee Cherry Ripeness Grading System Using Image Processing	King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus	Agricultural Engineering	Coffee Grading Team	kittisak.ph@kmitl.ac.th
AGE-02	Profeed: Automated Poultry Feeder	University Putra Malaysia	Agricultural Engineering	UPM GROUP 2	211796@student.upm.edu.my
AGE-03	The 3-In-1 Seedponic Rack	Universiti Putra Malaysia, Bintula Campus	Agricultural Engineering	AGRIASPIRANT UPMKB	S34617@student.upm.edu.my
AGE-04	Comparison of the Quality and Quantity of Biochar Produced from a Conventional Kiln and a Modified Kiln	Maejo University	Agricultural Engineering	Bio Biochar.	kanyaweesriboonma5@gmail.com
AGE-05	Development of An Automated Pest Monitoring System for Cacao Pod Borer in Cocoa Plantations (MOPECO)	Universiti Teknologi MARA	Agricultural Engineering	MOPECO	2022470748@student.uitm.edu.my
AGE-06	Design and Implement IoT Based Greenhouse System	Universiti Putra Malaysia	Agricultural Engineering	GROUP 1 UPM	muhammadhafizuddin37@gmail.com
AGE-07	Compost Bin: A Smart and Efficient Solution for Urban Composting	Universiti Teknologi MARA, Perlis Branch, Arau Campus	Agricultural Engineering	NutriCycle	2022772211@student.uitm.edu.my
AGE-08	Evaluating Solar Powered Irrigation System for Herbal Cultivation	Universiti Teknologi MARA, Perlis Branch, Arau Campus	Agricultural Engineering	Solarri	2022920103@student.uitm.edu.my
AGE-09	Sustainable Vegetable Production in Controlled Greenhouse	Suranaree University of Technology	Agricultural Engineering	SUT GreenUP	janewit@sut.ac.th
AGE-10	INDA: An IoT- Enabled Algorithm for Precision Nutrient Dosing in Hydroponic	Universiti Putra Malaysia	Agricultural Engineering	HydroVision	amanizzati76@gmail.com
AGE-11	IoT-Based Sensor for Water Quality Monitoring in Aquaculture System	Universiti Putra Malaysia	Agricultural Engineering	Group 5	adilamustafa02@gmail.com
AGE-12	Optimization of Pump System to Prevent Leakage	Universiti Putra Malaysia	Agricultural Engineering	Group 7 UPM SERDANG	211966@student.upm.edu.my
AGE-13	Eco-Friendly Bird Repellent for Sustainable Agriculture	Universiti Putra Malaysia	Agricultural Engineering	Group 3 (UPM Serdang)	217309@student.upm.edu.my
AGE-14	Design and Build of a Coffee Fruit Color Sorting Machine	King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus	Agricultural Engineering	BlackFu	65200014@kmitl.ac.th

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AGE-15	EcoMush: Revolutionizing Mushroom Cultivation With Automated Incubation	Universiti Putra Malaysia, Bintula Campus	Agricultural Engineering	BioBloomer	s34006@student.upm.edu.my
AGE-16	2 in1 Fruit Harvester	Universiti Putra Malaysia Bintulu Campus, Sarawak, Malaysia	Agricultural Engineering	Technovest	s34453@student.upm.edu.my
AGE-17	Integrating Internet of Things (IoT), Sensor, Computer Vision, and AI-Based Systems for Monitoring Bee Pollinators and Enhancing Agricultural Pollination Efficiency	Brawijaya University	Agricultural Engineering	GAZZ	ahmadgibrnm@student.ub.ac.id
AGE-18	Cotton Plant Disease Detection Using Ensemble Learning to Increase Agricultural Effectiveness and Welfare of Women Farmers in Sumba Island, Indonesia	Brawijaya University	Agricultural Engineering	SKY	melindarany@student.ub.ac.id
AGE-19	Maturity Evaluation of Monthong Durian Using Gas Sensors and Artificial Neural Network	King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus	Agricultural Engineering	AE Chumphon Campus	pramote.ku@kmitl.ac.th
AGE-20	Drone Thermal and High-Resolution RGB Camera with Machine Learning for The Detection of Ganoderma Disease in Oil Palm Plantation	Universiti Putra Malaysia	Agricultural Engineering	ADELAA	214789@student.upm.edu.my
AGE-21	Enhancing Shine Muscat Grape Supply Chain Transparency and Efficiency through IoT and NFTs: A Solution for Quality, Safety, and Sustainability	Brawijaya University	Agricultural Engineering	Three Muscat-eers	auliashabirin@gmail.com
AGE-22	Smart Tractor for Automatic Plant Irrigation	Andalas University	Agricultural Engineering	Andalas Smart Tractor	santossaibuma@gmail.com
AGE-23	Integrated Real Time Elephant Detection and Alarm System (i-ReDA)	Universiti Teknologi MARA	Agricultural Engineering	EleBeez	aidasazury@gmail.com
AGE-24	Q-SenseAgri: Quantum Sensor Technology for Early Detection of Plant Stress on Potato to Reduce Chemical Use in Agriculture	Brawijaya University	Agricultural Engineering	Quanteam	naurahsafa@student.ub.ac.id
AGE-25	Integration of Computer Vision and CNN (Convolutional Neural Network) to Identify Carotenoid Content and Ripeness of Orange Fruit (Citrus Reticulata)	Brawijaya University	Agricultural Engineering	CITRUS CRACKERS	setiyaki13nandi@gmail.com
AGE-26	Goat Feeder Automation	Politeknik Kota Bharu	Agricultural Engineering	Politeknik Kota Bharu Team 1	julia@pkb.edu.my
AGE-27	Hydroponic System Analysis and Control (e-HSAC)	Politeknik Kota Bharu	Agricultural Engineering	Politeknik Kota Bharu Team 2	nurulazila@pkb.edu.my
AGE-28	Automated Waste Segregator	Politeknik Kota Bharu	Agricultural Engineering	Politeknik Kota Bharu Team 3	julia@pkb.edu.my

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AGE-29	Hybrid Solar-Electric Dryer for Agricultural Products	Suranaree University of Technology	Agricultural Engineering	SUT Hybrid Energy	tawarat@sut.ac.th
<b>Session: Food and Bioprocess Engineering</b>					
FBE-01	SFG+	Universiti Putra Malaysia, Bintula Campus	Food and Bioprocess Engineering	AgriTiller	s34478@student.upm.edu.my
FBE-02	Innovative Approach to the Production Process and Physicochemical Characterization of Freeze-Dried Yogurt Powder	Suranaree University of Technology	Food and Bioprocess Engineering	Shabu Team	tirapo@sut.ac.th
FBE-03	Study of Factors Affecting The Culture Wolffia in Prototype Farms to Create The Future Food	Maejo University	Food and Bioprocess Engineering	Wolffia = Water Egg	mju6403102340@mju.ac.th
FBE-04	Effect of Illumination and MJ-Hydroponics Nutrient Solution on Isolated Strain Plant of Wolffia Globosa Cultivation	Maejo University	Food and Bioprocess Engineering	Phum power	MJU6403102312@mju.ac.th
FBE-05	Development of A Real-Time Notification System Using Line Notify	Meajo University	Food and Bioprocess Engineering	Alarm Group	naphanan.aritsara.jitrada@gmail.com
FBE-06	Design of a Biomass Conveyor Belt Dryer Using a Hot Air System	Meajo University	Food and Bioprocess Engineering	Biomass Belt Dryer	MJU6403102315@mju.ac.th
FBE-07	Development of Image Processing System to Identify Dehiscence Zone Coordinates for Durian Dehusking Robotics Arm	Maejo University	Food and Bioprocess Engineering	Food Step	mju6403102332@mju.ac.th
FBE-08	Kinetics of Lychee Wine Fermentation and Production Scale-up	Maejo University	Food and Bioprocess Engineering	Lychee Wine	apatrat46@gmail.com
FBE-09	Banana Sheet Pressing Machine Design	Maejo University	Food and Bioprocess Engineering	Banana Team	Mju6403102317@mju.ac.th
FBE-10	Automated Corn Shelling Machine Development	Maejo University	Food and Bioprocess Engineering	CornOptimum	champing45@gmail.com
FBE-11	Design and Proof of Concept for Fruit Juice Squeezing Axillary Device	Maejo University	Food and Bioprocess Engineering	Mangosteen	thanchanok.suriyawong@gmail.com
FBE-12	MELODY: Moderate Electric Field Optimization for Dairy Yield	Universitas Gadjah Mada	Food and Bioprocess Engineering	MELODY	muhammad.imaduddin.anwarrizqika@mail.ugm.ac.id
FBE-13	MN SAVE TRACK	Maejo University	Food and Bioprocess Engineering	Maintenance	mju6403102306@mju.ac.th

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FBE-14	Analysis of Kinetics model from Hot Air Drying of Bananas	Maejo University	Food and Bioprocess Engineering	Kinetic Banana	emotynutty@gmail.com
FBE-15	Design and Development of Equipment for Controlling The Water Level in The Frozen Tuna Thawing Process to Reduce Wet Areas	Maejo University	Food and Bioprocess Engineering	WET FLOOR	tarapisit1701@gmail.com
FBE-16	Effect of Water Contamination in Refrigeration Systems	Maejo University	Food and Bioprocess Engineering	WDO	natthapon.a.insee@gmail.com
FBE-17	Optimizing of Temperature and Time For Dried Cocoa Nibs	Maejo University	Food and Bioprocess Engineering	Dark Choc	nawapat.ning@gmail.com
FBE-18	Plasma Bubble-Activated Water	Maejo University	Food and Bioprocess Engineering	Plasma water	Phonphong.n@gmail.com
<b>Session: Food Science and Technology</b>					
FST-01	Application of Pulsed Electric Field and UV-C As A Non Thermal Pasteurization Integrated with Artificial Intelligence in Mango Juice Industry	Brawijaya University	Food Science and Technology	MANTOP	dansebastian01@student.ub.ac.id
FST-02	Microwave Processing: A Game-Changer for Sweet Potato Crackers	University Putra Malaysia	Food Science and Technology	Group 4 UPM	angelyaujiaxuan@gmail.com
FST-03	CornVea (Vegan Corn Cheese)	Universiti Sultan Zainal Abidin	Food Science and Technology	Foodtecheroes	kunurathikah02@gmail.com
FST-04	EMPING EMAS (Golden Corn Crunch)	Universiti Sultan Zainal Abidin	Food Science and Technology	TRICO	anisnashyrah@gmail.com
<b>Session: Postharvest Technology</b>					
PHT-01	Comparison of Seed Drying Methods of Rice and Maize Seeds	Maejo University	Postharvest Technology	Moo Dang from PHT	Tidarat_kk@mju.ac.th
PHT-02	APPLE: Advanced Preservation and Packaging using Logistical Environment with Respiration Quotient (RQ)-based Dynamic Modified Atmosphere Carrier System	Universitas Gadjah Mada	Postharvest Technology	APPLE	syrinaliazahramarin@mail.ugm.ac.id
PHT-03	Utilization of Ethanol Vapors Inhibits In Vitro Development of Key Pathogen Causing Anthracnose and Stem-End-Rot in 'Nam Dok Mai' Mango.	Maejo University	Postharvest Technology	Postharvest No.3	preuk_cs@mju.ac.th
PHT-04	Application of Thermal Image Technology for prediction maturity of Tongar Avocado Fruit (Persea americana Mill)	Andalas University	Postharvest Technology	Kilek Marapi	regiaditya43@gmail.com

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PHT-05	Croppa AI: Integrated Chatbot for Defects and Spoilage Detection in Agri-Food Products Using TCS3200 and Hyperspectral Imaging	Brawijaya University	Postharvest Technology	Cropmates	caseykembuan@student.ub.ac.id
PHT-06	Effects of Hot Water Treatments and Calcium Chloride on the Quality of Fresh-cut Guava cv. Kimju	Maejo University	Postharvest Technology	D-JAI	duangjai_nw@mju.ac.th
<b>Session: Rubber Technology and Material Science</b>					
RBT-01	Anti-Corrosion Coating of Steel with Natural Rubber Latex	Maejo University	Rubber Technology and Material Science	RP-TECH MJU	watthanawikkam@gmail.com