

Agricultural Engineering

Gold

	Name	Institution	Title
1	Dr. Mahirah Jahari, Muhammad Hakimi Razali, Muhammad Syahir Shahibullah, Nurul Najihah Yusof	Universiti Putra Malaysia	Portable Poultry Automatic Feeder
2	Assoc. Prof. Dr. Yusuf Hendrawan, Clara Dwi Anggraini, Imam Prasetyo, Wafa Nida Faida Azra	Universitas Brawijaya	Vacuum Drying for <i>Amorphophallus oncophyllus</i> Based on IoT and ANN
3	Assoc. Prof. Dr. Yusuf Hendrawan, Ahmad Zaki Mubarak, Isbakhul Lailatil Fibriyah, Nadyah Eka Nurizza, Quinnike Aisy Maskurin	Universitas Brawijaya	Aeroponic Cultivation Technology (Microgreens)
4	Dr. Chandra Setyawan, Dr. Radi, Jaromansen Damanik, Patrick Gani, Brigitta Ery Septiyanti	Universitas Gadjah Mada	GIS Based Vegetation Landscape Modelling for Conservative Agriculture Under Tropical Environment
5	Dr. Radi, Prof. Dr. Bambang Purwantana, Alfitra Widya Yubastama, Gigieff Henggar Jaya, Rafli Syaiful Fatah	Universitas Gadjah Mada	Rice Transplanter by using "Tapak Macan"

Silver

	Name	Institution	Title
1	Dr. Wan Nor Zanariah Zainol @ Abdullah, Dr. Nozieana Khairuddin, Wazif Akmal Hassdi, Carey Lu King You, Intan Wahida Abdullah	Universiti Putra Malaysia	Potatoes Hole Cutter
2	Prof. Sr. Gs. Dr. Abdul Rashid Mohamed Shariff, Muhammad Ghulam Ghouse, Ee Zu Er, Nurshahida Azreen Mohd Jais, Mohd Norazsyam Azman	Universiti Putra Malaysia	IoT Based Monitoring System for Empurau Fish Farming (FISHIoT)
3	Dr. Anas Mohd Mustafah, Dr. Wan Nor Zanariah Zainol @ Abdullah, Kelvin Niyok, Nur Firdeanna Suhaik, Vikneswaran Jeya Kumaran	Universiti Putra Malaysia	Fixed Distance Pineapple Planter
4	Dr. Sharence Nai Sowat, Dr. Wan Nor Zanariah Zainol @ Abdullah, Harryjoy Lian Jack, Anathasia Bejut Sandai, Melissa Chew Fui Yen	Universiti Putra Malaysia	Hill Rice Seedling Tool
5	Dr. Norulhuda Mohamed Ramli, Muhammad Nur Syawal Maulan, Nurul 'Awatif Mohamad Bekari, Nurul Najihah Zulkifli	Universiti Putra Malaysia	<i>Azolla pinnata</i> Vertical Farming System
6	Renny Eka Putri, Andasuryani, Jimmy Aprilio, Moh. Jalik Ardli Wibowo	Universitas Andalas	Development of Manual Sprayer
7	Dr. Nurhadajah Zainalabidin, Siti Hajar haron, Nur Fatini Abdul Rahim, Fatin Farzana Ibrahim	Universiti Malaysia Perlis	Solar Automatic Irrigation System in Paddy Field
8	Sagar Kafle, Suman Thapa, Roshan Pandey, Ramesh Regmi, Madan Prasad Banjara	Tribhuvan University	Integrated Farming System A Sustainable Approach to Agriculture
9	Hamdan Sulaiman, Siti Mariam Shamsi, Muhamad Faiz Hisham	Universiti Teknologi MARA	IoT-based Misting System for Seed Germination
10	Dr. Andri Prima Nugroho, Prof. Dr. Lilik Sutiarso, M. Athala Fawwaz D., Leonardus Dwi K. B. P., Ignatius Jovantheo	Universitas Gadjah Mada	Development of Mini Plant Factory System for Supporting the Urban Farming Cultivation
11	Aryanis Mutia Zahra, Siti Mariyam, Rizky Dian Ramadhan, Diza Rizky, Naufal Helmi Yumnanda,	Universitas Gadjah Mada	Development of An Intelligence Traceability System for Sustainability of Indonesian Cocoa Industry

Bronze

	Name	Institution	Title
1	Dr. Nurul Nadwa Zulkifli, Adeline Lendy anak Kennedy, Yari Estadania Sokyen, Zahrin Syazwan Che Rohim	Universiti Putra Malaysia	A Durian Peeler
2	Siti D'zaleha Sahiron, 'Ammar Farhan Othman, Muhammad Afiq Izuddin Iskandar Muhammad Anuar, Zamani Al Hakim Abidin	Institut Kemahiran Tinggi Perda (Perda-Tech)	Smart Home 'Puyuh'

The most Favorite

	Name	Institution	Title
1	Dr. Sharence Nai Sowat, Dr. Wan Nor Zanariah Zainol @ Abdullah, Harryjoy Lian Jack, Anathasia Bejut Sandai, Melissa Chew Fui Yen	Universiti Putra Malaysia	Hill Rice Seedling Tool

Food Engineering

Gold

	Name	Institution	Title
1	Bangun Prajanto Nusantara, Muhammad Yusril Hana, Oryza Ramadhania, Adiba Tsalsabilla	Universitas Gadjah Mada	CROD-IT: Circular Frying System with Rapid Oil Degradation Measurement based on Internet of Things

Silver

	Name	Institution	Title
1	Dr. Tiraporn Junyusen, Dr. Payungsak Junyusen, Natthaporn Chatchavanathari, Suwijak Thongin, Chakkaphat Phadungkit	Suranaree University of Technology	Development of Pressure Tank for Agriproducts Processing

Bronze

	Name	Institution	Title
1	Siti Kamariah Md Sa'at, Syafiq Aiman Shaiful Adli, Muhammad Arffa Safaraz Sopian, Syahmi Aiman Samsi	Universiti Malaysia Perlis	Cold Storage Chain Ecosystem
2	Dr. Arifin Dwi Saputro, Dr. Joko Nugroho Wahyu Karyadi, Tiara Dinda Faizza, Hasti Ihsani Ayu, Faisal Fathin Haider	Universitas Gadjah Mada	Aloevera Enriched Chocolate Drinks as a Healthy Drink in the Pandemic COVID 19

The most Favorite

	Name	Institution	Title
1	Bangun Prajanto Nusantara, Muhammad Yusril Hana, Oryza Ramadhania, Adiba Tsalsabilla	Universitas Gadjah Mada	CROD-IT: Circular Frying System with Rapid Oil Degradation Measurement based on Internet of Things

Biotechnology

Gold

	Name	Institution	Title
1	Dimas Firmanda, Joko Prasetyo, Yubi Vebiona Hartono, Ni Putu Eka Dwiyantri, Oki Trisna Sekar Arum	Universitas Brawijaya	Complex Biopreparations for Optimizing the Increase of Plants Yield

The most Favorite

	Name	Institution	Title
1	Dimas Firmanda, Joko Prasetyo, Yubi Vebiona Hartono, Ni Putu Eka Dwiyantri, Oki Trisna Sekar Arum	Universitas Brawijaya	Complex Biopreparations for Optimizing the Increase of Plants Yield

Green Technology

Gold

	Name	Institution	Title
1	Dr. Diyana Jamaludin, Dr. Muhammad Hazwan Hamzah, Jeremia Balang Sang, Tenny Kubu, Nur Khairunhazwani Zamri	Universiti Putra Malaysia	Putra Green Vertical Farming Model

Silver

	Name	Institution	Title
1	Dr. Zainal Abidin Arsat, Ainul Khalid Mulyani, Muhammad Danish Badrul Azmi, Noor Adlina Alaudin	Universiti Malaysia Perlis	Smart Broiler Farming
2	Samihah Mustaffah, Mohamad Syahrizan Ahmad Gaman	Universiti Teknologi MARA	The Development of Recording System on the Collection of Fresh Fruit (FFB) for Upstream Purposes, Study Conducted at FGVPM Tembungau 03 Pahang

Bronze

	Name	Institution	Title
1	Andika Wicaksono Putro, Shri Bhuwana Tungga Devi, Renno Meidi Akrommin, Maria Angela Putri Rahardja	Universitas Gadjah Mada	Food Plant: Gamification as an Effort to Change Individual Behaviour on Food Waste Problem
2	Dr Wan Nor Zanariah Zainol @ Abdullah, Siti Zuli Lailae Kamsan, Nuriana Fatihah Nuzasham, Aus Mohammad Danish Mohd Ahyah	Universiti Putra Malaysia	Monitoring of Black Pepper Growth Using Landsat 8 OLI

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	Name	Institution	Title
1	Andika Wicaksono Putro, Shri Bhuwana Tungga Devi, Renno Meidi Akrommin, Maria Angela Putri Rahardja	Universitas Gadjah Mada	Food Plant: Gamification as an Effort to Change Individual Behaviour on Food Waste Problem

Agricultural Waste Management**Gold**

	Name	Institution	Title
1	Siti Kamariah Md. Sa'at, Zulkarnain Ahmad Nazri, Syed Aiman Syed Razali, Tuan Puteri Maisarah Tuan Razmi	Universiti Malaysia Perlis	Biogas: Agro-Waste to Energy

Silver

	Name	Institution	Title
1	Aryanis Mutia Zahra, Siti Mariyam, Ibnu Farras, Hedwigis Nasia Meirieta, Dian Kharisma Rahmawati	Universitas Gadjah Mada	Utilization of Cocoa Waste as a Potential Source of Bio-Briquettes in Various Carbonization Technique
2	Dr. Chandra Setyawan, Dr. Radi, Jaromansen Damanik, Patrick Gani, Brigitta Ery Septiyanti	Universitas Gadjah Mada	Production of Bio Briquettes Using Coffee Residue Waste, Coconut Shell Charcoal, and Paper Adhesives for Community Use (BRICO)

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	Name	Institution	Title
1	Siti Kamariah Md. Sa'at, Zulkarnain Ahmad Nazri, Syed Aiman Syed Razali, Tuan Puteri Maisarah Tuan Razmi	Universiti Malaysia Perlis	Biogas: Agro-Waste to Energy