

Time	Day 2 (November 28, 2024)									
	Zoom 1	Zoom 2	Zoom 3	Zoom 4	Zoom 5	Zoom 6	Zoom 7	Zoom 8	Zoom 9	Zoom 10
9:30 am - 10:15 am	A1: Biomedical Robotics and Health Technologies	B1: Bio-energy, Environment, and Renewables	C1: Circuits, Sensor Networks, Signals, and Communication Technologies	D1: Computer Science, Data Science, and Algorithms	E1: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F1: Education, Media, Knowledge, and Business Platforms	G1: Nanotechnology, Manufacturing and Industrial Processes	H1: Plant, Agriculture, and Food Systems	I1: Transportation, Infrastructure, and Urban Cities Development	B8: Bio-energy, Environment, and Renewables
10:30 am - 11:15 am	A2: Biomedical Robotics and Health Technologies	B2: Bio-energy, Environment, and Renewables	C2: Circuits, Sensor Networks, Signals, and Communication Technologies	D2: Computer Science, Data Science, and Algorithms	E2: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F2: Education, Media, Knowledge, and Business Platforms	G2: Nanotechnology, Manufacturing and Industrial Processes	H2: Plant, Agriculture, and Food Systems	I2: Transportation, Infrastructure, and Urban Cities Development	C8: Circuits, Sensor Networks, Signals, and Communication Technologies
12:15 pm - 01:00 pm	LUNCH BREAK									
01:30 pm - 02:15 pm	A3: Biomedical Robotics and Health Technologies	B3: Bio-energy, Environment, and Renewables	C3: Circuits, Sensor Networks, Signals, and Communication Technologies	D3: Computer Science, Data Science, and Algorithms	E3: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F3: Education, Media, Knowledge, and Business Platforms	G3: Nanotechnology, Manufacturing and Industrial Processes	H3: Plant, Agriculture, and Food Systems	I3: Transportation, Infrastructure, and Urban Cities Development	F11: Education, Media, Knowledge, and Business Platforms
02:30 pm - 03:15 pm	A4: Biomedical Robotics and Health Technologies	B4: Bio-energy, Environment, and Renewables	C4: Circuits, Sensor Networks, Signals, and Communication Technologies	D4: Computer Science, Data Science, and Algorithms	E4: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F4: Education, Media, Knowledge, and Business Platforms	G4: Nanotechnology, Manufacturing and Industrial Processes	H4: Plant, Agriculture, and Food Systems	I4: Transportation, Infrastructure, and Urban Cities Development	F12: Education, Media, Knowledge, and Business Platforms
03:30 pm - 04:15 pm	A5: Biomedical Robotics and Health Technologies	B5: Bio-energy, Environment, and Renewables	C5: Circuits, Sensor Networks, Signals, and Communication Technologies	D5: Computer Science, Data Science, and Algorithms	E5: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F5: Education, Media, Knowledge, and Business Platforms	G5: Nanotechnology, Manufacturing and Industrial Processes	H5: Plant, Agriculture, and Food Systems	I5: Transportation, Infrastructure, and Urban Cities Development	F13: Education, Media, Knowledge, and Business Platforms
04:30 pm - 5:15 pm	A6: Biomedical Robotics and Health Technologies	B6: Bio-energy, Environment, and Renewables	C6: Circuits, Sensor Networks, Signals, and Communication Technologies	D6: Computer Science, Data Science, and Algorithms	E6: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F6: Education, Media, Knowledge, and Business Platforms	F9: Education, Media, Knowledge, and Business Platforms	H6: Plant, Agriculture, and Food Systems	H8: Plant, Agriculture, and Food Systems	F14: Education, Media, Knowledge, and Business Platforms

Time	Day 3 (November 29, 2024)									
	Zoom 1	Zoom 2	Zoom 3	Zoom 4	Zoom 5	Zoom 6	Zoom 7	Zoom 8	Zoom 9	Zoom 10
9:30 am - 10:15 am	A7: Biomedical Robotics and Health Technologies	B7: Bio-energy, Environment, and Renewables	C7: Circuits, Sensor Networks, Signals, and Communication Technologies	F8: Education, Media, Knowledge, and Business Platforms	E7: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F7: Education, Media, Knowledge, and Business Platforms	F10: Education, Media, Knowledge, and Business Platforms	H7: Plant, Agriculture, and Food Systems	H9: Plant, Agriculture, and Food Systems	F15: Education, Media, Knowledge, and Business Platforms
11:00 am - 12:00 pm	Awarding and Closing Ceremony									

Paper ID No.	Authors	Paper Title	Session Code	Date/Time
149	Carl Gim Canare, Chelsey James Lacaba, Demi Moore Sarmiento, Jay Villan and Noel Gunay	Impact of Dust Accumulation and Wind Speed on PV Solar Panel Performance: A Machine Learning-Based Prediction	B1	November 28, 2024 - 0930-1015
268	Virginia Molina, Rocele Nanale, Aprilene Villa, Rechelle Anne Ramos, Skarlet Faith Reyes, Jonard Balinbin, Jovelyn Detablan and James Patrick Vincent Abalos	Factors Influencing the Proficiency of Second Year Bachelor of Secondary Education Students	F1	November 28, 2024 - 0930-1015
316	Laarnie Perez, Clinton James Godwin Ballesteros and John Del Cabral	Comparison of Structural Properties of Different Joining Methods of Bamboo (Bambusa Spinosa) as Ttruss Members	I1	November 28, 2024 - 0930-1015
328	Edsel Matt Morales, Jaymer Jayoma, Jona Libot and Kristine Alcober	Multi-armed Bandit Algorithm as Reinforcement Learning Approach in Online Recommendation System of Learning Materials	D1	November 28, 2024 - 0930-1015
330	John Heland Jasper Ortega, Wilson Yu and Ace Lagman	Ika nga sa Bulacan!: Cultural Heritage Tourism Digital Campaign and Institutional Branding for Provincial History, Arts, Culture and Tourism Office (PHACTO)	F1	November 28, 2024 - 0930-1015
335	Jay Robert del Rosario	Design and Application of Traction Control and Regenerative Braking to Improve Vehicle Performance	G1	November 28, 2024 - 0930-1015
357	Zhu Zheng, Daniel Dasig Jr, Na Xiong and Marianne De Leon	Examining the Role of Pay Satisfaction in Reducing the Turnover Intentions in Management Consulting Firms in China	F1	November 28, 2024 - 0930-1015
358	Jessie Balbin, Adrian Gabriel Arceta, Aaliyah Laurea, Jesma Amit, Clyde Daniell Padernal, Jerus Monroe Sawali and Benjie Guiwo Jr.	Design of 3D Printing Features through Comparative Analysis of Direct Ink Writing and Pneumatic Extrusion Modes of 3D Printing	G1	November 28, 2024 - 0930-1015
362	Ruby Rosa Puno, Kristine Pineda, John Jayson Tulud, Hazzill Rodriguez, Cyrelle Dabu, Daniel Macaspac, James Abner Ines and John Paulo Ariel Espinosa	Gear3D: Photogrammetry 3D Scanner For Mechanical Gears	E1	November 28, 2024 - 0930-1015
364	Patrick John Atanacio, Mark Jim Malaga and Gerard Ang	Implementation of Agro-Shade with Fluorescent Solar Concentrators in Greenhouses	H1	November 28, 2024 - 0930-1015
397	Jessie Balbin, Benjie Guiwo Jr., Albert R. Ables, Gabriel Adrian C. Villamor, Lorenzo Caesar G. Camacho and Charles Dominic Montesines	Flesh and Bone: A Comparative Analysis on the Use Cases of Soft and Hard Robotics in the Medical Field for Hybrid Soft-Hard Finger Rehabilitation Design	A1	November 28, 2024 - 0930-1015
416	Jonnell Alejandrino, Ronnie Concepcion II, Argel Bandala, Ryan Rhay Vicerra, Edwin Sybingco,	Advancing an Accessible, Multimodal, and Multidomain Bioelectrical Measurement	H1	November 28, 2024 - 0930-1015

	Lawrence Gan Lim, Raouf Naguib and Elmer Dadios	System for Comprehensive Real-Time Plant Profiling		
431	Lorenz Richard Bactong, Karen Lodronio and Wilson Yu	Definitely Abled: A Digital Campaign on Disability Sensitivity Awareness toward Filipino Persons with Disabilities	F1	November 28, 2024 - 0930-1015
435	Jhamila Cabacungan, Aira Elijah Afalla, Janssen Jay De Guzman, Gelli Oliveros and Lovely Grace Paulino	Determinants of Financial Habits and Level of Financial Literacy Among Beneficiaries of the ABA-SVA Extension and Outreach Projects	F2	November 28, 2024 - 1030-1115
446	Cheryl Lyn Ayuste, Ryan Manuel Guido and Thaddeus Owen Ayuste	Predictive Analysis in Biotechnology Research in the Philippines: Towards Model Development	H1	November 28, 2024 - 0930-1015
524	Zhu Zheng, Na Xiong and Daniel Dasig Jr	Bayesian Network Analysis of Risk Factors Impacting Progress in Old Residential Area Renovation Projects	D1	November 28, 2024 - 0930-1015
541	John Heland Jasper Ortega and Wilson Yu	TRACK 2 TRACK: A Digital Communication Plan on Passenger Information Dissemination for LRT-2	F2	November 28, 2024 - 1030-1115
588	John Paul Cruz, Dionis Padilla, Cyrel Manlises, Lianne Joyce Leynes, Gerson Ortega, Erinn Chloe Sanchez and Trisha Kaye Wong	Skin Cancer Classification using Ensemble CNN	A1	November 28, 2024 - 0930-1015
594	Jonnell Alejandrino, Ronnie Concepcion II, Argel Bandala, Ryan Rhay Vicerra, Edwin Sybingco, Lawrence Gan Lim, Raouf Naguib and Elmer Dadios	In Situ Bioimpedance Measurement of Strawberry Leaves for Precise Water Stress Assessment	H1	November 28, 2024 - 0930-1015
622	Jun-Jun Obiso, Rommel Debabao, Darich Dave Jumao-As, Jizsa Maria Mayorga, Joel Tadle, Rafran de Villa, Gilbert Silagpo, Jayson Jueco, Maria Gemel Palconit and Maria Angelica Reyes	Kita-Kita: A Smart Eyewear for Enhanced Indoor Perception of Visually Impaired Students Equipped with AI Machine Vision Sensor	E1	November 28, 2024 - 0930-1015
646	Jason Harvey Lorenzo and King Harold Recto	Transforming Energy Management with Advanced Web-Driven Community Dashboards	F2	November 28, 2024 - 1030-1115
738	Ivan Lariosa, Marc Kristian Colaljo, Siddiq Andam, Erlfredo Pagente, Rowyne Paler, Erman Marajas, Faith Baldonado, Jonathan Solano, Lester Librado, Roque Requino and Carl John Salaan	A Mechatronics Trainer Prototype using a 3-Axis Articulated Robotic Arm with Two (2) Optional End Effector for Pick and Place Operation	G1	November 28, 2024 - 0930-1015
786	Ramon Garcia, Allyza Marie Balane, Robert Mappala Jr. and Charmaine Paglinawan	Emergency Alert System for Patients with Anxiety Disorder	A3	November 28, 2024 - 1330-1415
812	Ronnel Agulto, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco, Michael Judrick Aringo,	Development of a Linux-Based Shell Script for File Management on Varying Specifications	D1	November 28, 2024 - 0930-1015

	Louie Que, John Matthew Enciso and Sean Patrick Tan			
920	Carlo Romero and King Harold Recto	Sustainable Remote Surveillance through Novel Integrated Motion Detection Systems	E1	November 28, 2024 - 0930-1015
972	Antipas Teologo Jr., Romano Neyra, Rex Paolo Gamara and King Harold Recto	Securing Reliable Wireless Networks for a Sustainable Future: Insights from the COST 2100 Channel Model	C1	November 28, 2024 - 0930-1015
978	Neil Oliver Velasco, Clihne Arjay Criste, Patrick Francisco, Christopher Anthony Lamberte, Louie Que, Ann E. Dulay, Marnel Peradilla, Rhen Anjerome Bedruz and Aaron Don M. Africa	Smart Temperature Control System Using Microstrip Antenna for IoT	C1	November 28, 2024 - 0930-1015
1002	Armie Pakzad, Aaron Don Africa, Ronnel Agulto, Ann Dulay, Neil Oliver Velasco, Ervin Raphael Alba, Kenan Banal, Maverick Victor Santos and Patrick David Santos	Text-Based Task Manager using Shell Script in Ubuntu Linux	D5	November 28, 2024 - 1530-1615
1047	Joan Baez Obien, Ivan Roy Evangelista, Argel Bandala, Elmer Dadios, John Anthony Jose and Ronnie li Concepcion	Intelligent Classification of Gender and Gravid Condition of Giant Freshwater Prawn Using ConvNeXt Family Models	H2	November 28, 2024 - 1030-1115
1064	Mary Anne Sahagun	Walrus Optimization Algorithm (WaOA) in Optimal Sizing Photovoltaic Module and Battery Storage for the Design of Solar Energy System	B1	November 28, 2024 - 0930-1015
1082	Florante Jr Poso and Nino Pilueta	Comparative Evaluation of Riverbank Slope Stability Using the Method of Slices	I1	November 28, 2024 - 0930-1015
1089	John Nico Omlang, Vergel Angelo Baal, Prince Zeus Petalcorin, Jayvee Honorio and Alliken Jett Ruallo	Parametric Analysis of the Factors Affecting the Corrosion Rate of Electrodes and Oxyhydrogen Production of an HHO Generator	G1	November 28, 2024 - 0930-1015
1147	John Noel Ezekiel Gregorio, Julian Elliot Claro, Emmanuel Lucas, Jericho Retuya, Daniel Rafael Santiago, Kirk Alvin Awat and Ma.Corazon Fernando	Overdrive: A 3D First Person Investigation Game About Raising Awareness Towards Social Class Inequality in the Philippines	F2	November 28, 2024 - 1030-1115
1183	Ma.Corazon Fernando and Geliza Marie I Alcober	LACAD: Business Management System with Sales Forecasting using ARIMA and Foot Traffic Analysis using YOLOv7 and Linear Regression	F3	November 28, 2024 - 1330-1415
1214	Immanuel Jose Valencia, Robert Kerwin Billones, Elmer Dadios and Gerhard Tan	Real-Time AI-Based Video Analytics in Edge Computing Platform	E2	November 28, 2024 - 1030-1115
1236	Perrie Lance Perocho, Ronnie Concepcion II, Robert Kerwin Billones and Gerhard Tan	Integrating Research and Science Policy in Transforming Smallholder Farms with Cyber-Physical Agricultural Systems	H2	November 28, 2024 - 1030-1115

1244	Amitav Swapnil, Inna Sosunova, Sherah Kurnia, Zeph M.C. Van Berlo, Manuel Garcia and Ari Happonen	Business Sustainability Performance through Augmented Reality: A Literature Review on Applications, Benefits and Challenges	F3	November 28, 2024 - 1330-1415
1277	Ralph Gerard Sangalang, Joana Cristine Cajucom, Kristopper John Clarete, Erica Mauhay and Jaypee Bautista	Piezoelectric Energy Harvesting through Synchronous Electric Charge Extraction for Biomedical Sensors Implemented using 45-nm CMOS Process	B1	November 28, 2024 - 0930-1015
1289	Dr. Peter Laurence Valencia	Developing Behaviour Altering Mechanisms for IT and IS Procurement	F3	November 28, 2024 - 1330-1415
1382	Adrian Genevie Janairo, Joseph Aristotle De Leon, Jonah Jahara Baun, Ronnie Concepcion II, R-Jay Relano, Kate Francisco, Mike Louie Enriquez, Robert Kerwin Billones, Argel Bandala, Ryan Rhay Vicerra and Elmer Dadios	Series Integer Linear Programming-based Scheduling for Subterranean Characteristic Scale Development Using Mixed ERT and CRI Imaging	I1	November 28, 2024 - 0930-1015
1405	Mary Anne Sahagun and Mark Jasper Ong	KAYANTABE: An Android Application for Academic Stress Counseling for Engineering Students	A2	November 28, 2024 - 1030-1115
1454	Francisco Culibrina	Effects of Acoustic Energy into Cold Molecules on Air	B2	November 28, 2024 - 1030-1115
1465	Hanz Rafael V. Manuel, Angel Loren C. Ducut, Carlo Emmanuel R. Macatuno, Kerby Chester S. Serrano, Crisanto G. Guintu, Francis Dave D. Viscaya, Luis Adrian Israel D. Tuazon and Dorothy Joy M. Tongol	YOLOv8 with Optical Character Recognition for License Plate Recognition and Detection on a Campus	E2	November 28, 2024 - 1030-1115
1478	John Paul Cruz, Dionis Padilla, Alaric Espiña, Khyle Matthew Gopole and Roger Angelo Salinas	Herbal Finder: A Deep Learning-based Mobile Application for Providing Identification and Usage of Herbal Leaves	H2	November 28, 2024 - 1030-1115
1511	Van Gaitano Vergara, Ray Malonjao and Juvy Malonjao	Knowledge-Driven Approach to Selection of Soundproofing Material in Optimizing Classroom Acoustics Using Fuzzy AHP-FuzzyTOPSIS	F3	November 28, 2024 - 1330-1415
1532	Jessie Balbin, Kallista Coleen T. Antenor, Allana Kyle H. Deang, Sumin Yoo, Marlon Jim Garino, Benjie Guiwo Jr., Noel Salalila and Esperanza Chua	AI-Powered Urban Traffic Management: An Innovative Solution for Real-Time Traffic Optimization and Congestion Control	I1	November 28, 2024 - 0930-1015
1560	John Peter Ramos, Jessica Velasco, Edmund Monilar, Adrian Darren Galera, Paulo Montejo Jr., Niña Marie Pacoma, Charles Rosete and Franchesca Anne Sebastian	Custom YOLOv8 Model for Crown-of-Thorns Starfish (Acanthaster planci) and Long-Spined Sea Urchin (Diadema antillarum) Quantification	B2	November 28, 2024 - 1030-1115
1564	Jabez Ayson, Ervin John Cabrera, Gabriel Carl Crisostomo, Krizle Feyh Santos and Nicholas Alonzo	Op-AmPerceptron: Design and Implementation of a Hardware-based Multilayer Perceptron	C1	November 28, 2024 - 0930-1015

		Network using Operational Amplifiers		
1608	Jay-Ar Lalata	ASDvisor: An App-Based Management Platform with Care Decision Support System for Children with Autism	A3	November 28, 2024 - 1330-1415
1668	Zhu Zheng and Daniel Dasig Jr	Examining the Role of Autonomous Driving Technology in Enhancing Environmental Sustainability	I2	November 28, 2024 - 1030-1115
1687	Felina Guiniling, Lea Hob and Raven Kier Daus	Assessment of the Community Extension Services (CES) by the School of Criminology in San Juan Solano, Nueva Vizcaya	F4	November 28, 2024 - 1430-1515
1787	Ronald Barriga, Dan Jeward Rubis, Mercedito Tambalque, Leo Benjamin Jerusalem, Helinor Medina and Rochelle Joy Tagle	Content Marketing and Corporate Brand Awareness in the Philippines: A Structural Equation Model (SEM)	F4	November 28, 2024 - 1430-1515
1836	Anthony Li John Velasquez, Ira Valenzuela, Elmo Mandigma, Alexi Alberto and Juan Gabriel Galang	Vision-Based Chlorophyll-A Measurement for Iceberg Lettuce using Multi-Gene Symbolic Regression Genetic Programming	H3	November 28, 2024 - 1330-1415
1864	Dave Mark De Castro, Knudcen Gradly De Villa, Jenny Endaya, Francine Hope Ferrer, Alross Guevarra, Steven Joseph Hernandez, Allen Pesigan and Selverino Magon	Correlated Color Temperature in Smart Home Lighting: Unveiling Trends for Enhanced Circadian Rhythm	G2	November 28, 2024 - 1030-1115
1979	Roland Anthony De Leon, Carl Angelo Almazan, Moesha Imran Guittap, Joaquim Anton Pizarro, Ronel Ramos and Manuel Garcia	Tribe of Peril: A 3D Realtime Strategy Survival Video Game in Early Century Philippines for Mastery of Tactical Dexterity and Battle Warfare	F4	November 28, 2024 - 1430-1515
1985	Ma. Corazon Fernando, Abricam Tinga and Roman De Angel	Walk To Remember: Historical Preservation of Fort Santiago's Multifaceted Eras Through Augmented Reality	E2	November 28, 2024 - 1030-1115
2026	Jasel Ann Parayao, Edison Anit, Princess Colin Solomon, Jamaica Arielle Tan, Ronnie Concepcion II and Jan Michael Santos	Combined Feedforward and Feedback System for a Quality-by-Design (QdB) Approach in Pharmaceutical Development and Soft Gelatin Capsule Manufacturing Process	A1	November 28, 2024 - 0930-1015
2059	Maria Gemel Palconit, Christian Mahinay, Sheene Shane Macardo, Terence Yap, Jayson Jueco, Gilbert Silagpo and Jun-Jun Obiso	Jeepney Real-Time Paratransit Information Using LoRaWAN, Smartphone APIs, and IoT: An Intelligent Transport System Application	I2	November 28, 2024 - 1030-1115
2060	Adam Roscoe Guangco, Robert Kerwin Billones, Jason Española, Immanuel Jose Valencia and John Carlo Puno	Detection of U-waves in Electrocardiogram Signals Using Wavelet Transform and Convolutional Neural Networks	A1	November 28, 2024 - 0930-1015
2164	Marc Joshua Hernandez, Kyle Joshua Abordo and Jan Brixther Calimag	An Investigation on The Quality of The Prototype Sound-Absorbing Wall Panel Made of Dried	G2	November 28, 2024 - 1030-1115

		Coconut Husk Fiber with Varying Density and Porosity		
2179	Dheryl Gay Tullioc, David Eusebio, Renielyn Taguiam, John Moroni Guhic, Carl Jay Roldan and Nephi Lea Guhic	Exploring the Implementation and Effectiveness of CCTV Surveillance Systems in Promoting Safety and Security in a Private School in Nueva Vizcaya	F5	November 28, 2024 - 1530-1615
2195	Jay Robert del Rosario, Michael Judrick Aringo, Anton Luis Boquer, John Matthew Enciso, Robert Jaime Salvador and Argel Bandala	Development of a PIC16F877A-Based Robotic Fish for Oil Spill Detection and Location Communication	B1	November 28, 2024 - 0930-1015
2277	Sheena Alvarez, Yvonne Miral, Elaine Krisnell Miral, Jhun Ryan Arnoco, Immanuel Paradela, Melody Mae Maluya, Earl Ryan Aleluya, Francis Jann Alagon and Carl John Salaan	Centralized Weather Prediction and Monitoring System for Flood-Prone Cities	B2	November 28, 2024 - 1030-1115
2386	Jasel Ann Parayao, Ira Valenzuela-Estropia and Nicanor Roxas	The Prediction Of Depression Severity Using Genetic Algorithm with Multiple Input Single Output (GA-MISO)	D2	November 28, 2024 - 1030-1115
2397	Ryan Manuel Guido, Ruben Dichoso, Jaymer Punzalan and Jason Kalaw	Exploring Trends in Electrical and Electronics Engineering Research in the Philippines: Towards a Collaborative Networks	C2	November 28, 2024 - 1030-1115
2425	Daniel Dasig Jr, Isagani Valenzuela II, Carolina Ditan, Paulo Noel Mazo, Joseph Juanzon, Roderick Borja, Lucila Magalong, Alyn Joy Baltazar, Emelyn Libunao, Maria Victoria Trinidad, Sharon Sanchez, Jewelyn Ciocon, Nelson Garcia, Mariel Jagurin, Shirley Pangan, Gina Agus, Ana Belen Cuyugan and Edmongino Camacho	The Role of HR Technology Adoption and its Impact on Talent Acquisition and Management in the Philippines	F4	November 28, 2024 - 1430-1515
2456	Rico Jajeb Cabugatan, Cynthia Esponga, Marinell Figuracion, Mark Anthony Refuerzo, Jessie Richie de Los Santos, Giovanni de Los Santos and Lorna de Los Santos	GEOGAS App: A Geo Routing LPG Delivery Service Application	I2	November 28, 2024 - 1030-1115
2478	Flordeliza Valiente, Arnold Paglinawan, Aulivier Gilchrist Aquino, Roilo Ardan Majorucon, Roven Garrate and Maricris Cleofe	Design of a 400W 48 V Current-Mode Control LLC Resonant Converter using ASIC	C1	November 28, 2024 - 0930-1015
2480	Jasel Ann Parayao, Ira Valenzuela and Nicanor Roxas	Neural Network-Based Approach for Diagnosis of Breast Cancer: A Comprehensive Study and Analysis	A2	November 28, 2024 - 1030-1115
2493	Christian Mallari, Philip Doctor and Myka Cruz	DHViChat: An Intelligent Chat Assistant for the Admissions Office using Natural Language Processing	D2	November 28, 2024 - 1030-1115
2556	Winchester Gerez, Saturnina Nisperos and James Patrick Acang	Degree Program Recommendation Model for Prospective MMSU Students	F5	November 28, 2024 - 1530-1615

2566	Ken Sammuel I. Camacho, Michael Leander P. Roque and Nilo T. Bugtai	Grid-based Path Planning Approaches in Endovascular Surgery	A2	November 28, 2024 - 1030-1115
2590	Rosemarie Pellegrino	Automated Nebulizer for Person with Asthma based on Vital Signs and Peak Expiratory Flow Reading	A5	November 28, 2024 - 1530-1615
2649	Arnold Paglinawan, Flordeliza Valiente, Angelito Golimlim Jr, John Elbert Mendoza, John Michael Villaruz and John Faustino Iii Begino	Design of a 400W 48SV ASIC Controlled Zero- Voltage Switching (ZVS) Phase-Shift Full-Bridge Trimmable DC-DC Converter	C2	November 28, 2024 - 1030-1115
2650	Ruby Rosa Puno, Kristine Pineda, Mark Justine Bocaoco, Charlie Buenviaje, Christian De Silva, Paul Dela Peña, Kimberly Grospe and Jhon Cedric Lansang	ARRAX: An Autopilot Drone Using Image Processing for Flood Search and Rescue Operation	E3	November 28, 2024 - 1330-1415
2651	Marian Lubag, Mark Angelo Lubreza, Vince Andrei Dela Paz, Ronnie Concepcion II and Rick van de Zedde	Potato Leaf Disease Classification Using Vision Transformer Networks	H3	November 28, 2024 - 1330-1415
2655	Aristotle Musni	Development and Evaluation of an Automated Medicine Dispensing Machine with Integrated Monitoring System for Enhanced Medication Management	A4	November 28, 2024 - 1430-1515
2697	Gamaliel Peliño, Rhoderick Malangsa and Alex Bacalla	Performance comparison of K-Nearest neighbor and Naives Bayes algorithm for crop yield classification	H2	November 28, 2024 - 1030-1115
2703	Jessie Balbin, Marianne Karylle Felix, Javin Kurt Xyryl Vargas, Ardi Bowen G. Fuentes, Miki Meliton, Vince Gabriel Obien and Benjie Guiwo Jr.	Design of Stair-Climbing Robot with Vaccum Function	E3	November 28, 2024 - 1330-1415
2750	Darrel Cardaña, Max Angelo Perin, Weena Mae Ampo, Ma. Charlotte Cabacog and Elsa Cadorna	Exploring University Student Exit Interviews Using Topic Modeling	F5	November 28, 2024 - 1530-1615
2779	Mark Angelo Lubreza, Marian Lubag, Vince Andrei Dela Paz, Jonathan Divino, Kernel Miguel Llanes, Ronnie Concepcion II and Filipe Inácio Matias	Sugarcane Leaf Disease Classification Using Neural and Vision Transformer Networks	H4	November 28, 2024 - 1430-1515
2813	Francis Bert Dolot, Josh Mikael Leachon, Louise Marwin Paran, Mark Jefferson Lim, Jovito Jr. Espiritu, Jason Española, Ryan Rhay Vicerra, Argel Bandala and Elmer Dadios	Development of an Automated Defect Detection System for Plastic Bottles in the Production Line Using Computer Vision	G4	November 28, 2024 - 1430-1515
2833	Elmar Francisco and Ronnel Agulto	A Blockchain Framework for Consensus-Based Management of Medical Records in IoT-Based Pandemic Monitoring Systems	A3	November 28, 2024 - 1330-1415
2888	Maria Kristina Rodriguez, Gheciel Mayce Santos, Jennifer Dela Cruz and Jmi Dela Cruz	Optimized Hardware Design for Machine Learning Speech Delay Speech-to-Text Device	C2	November 28, 2024 - 1030-1115

2895	Dr. Peter Laurence Valencia	Examination of the Nature of Technical Specifications for Information Technology Procurement in Government	D2	November 28, 2024 - 1030-1115
2930	Jessie Balbin, Carlos Hortinela IV, Janette Fausto, Jason Ray M. Moslares and Alexis Tyron V. Talusan	Comparison of Philippine Invasive Tree Seeds and their Lookalike Seeds based on Area using OpenCV	E3	November 28, 2024 - 1330-1415
2949	Darius Joseph Diamante, Michael Angelo Promentilla and Alvin Culaba	Systematic mapping and analysis of barriers to nuclear power development in the Philippines: An LLM-assisted hierarchical network model approach	B2	November 28, 2024 - 1030-1115
2954	Geraldine Mangmang	Assessment of the IT Internship Program Through Data-Driven Insights Using Naïve Bayes Classification	F5	November 28, 2024 - 1530-1615
2991	Darius Joseph Diamante, Aristotle Ubando and Alvin Culaba	The impact of nuclear power in the Philippine energy mix: A linear programming optimization approach	B3	November 28, 2024 - 1330-1415
3089	Elbert Moyon, Jaymer Jayoma and Clark Justine Gonzales	Performance Analysis of HAN, HLSTM, and BERT in Classifying Accreditation Documents	D3	November 28, 2024 - 1330-1415
3166	Arnold Paglinawan, Flordeliza Valiente, Harish Doll, Jayson Osayan, David Nathaniel Pasoquen and Ben Idris Pascual	Design of a 1kW Single-Phase AC Switch Bridgeless PFC using Voltage Doubler	C3	November 28, 2024 - 1330-1415
3167	Jonnell Alejandrino, Ronnie Concepcion II, Argel Bandala, Ryan Rhay Vicerra, Edwin Sybingco, Lawrence Gan Lim, Raouf Naguib and Elmer Dadios	3D Volumetric Visualization for Holistic Strawberry Biomechanical Variation Analysis	H8	November 28, 2024 - 1630-1715
3224	Edsel Matt Morales and Jaymer Jayoma	A Client-base Map Rendering Technique: Leveraging the Browser's Capabilities for Web Mapping and Web GIS Applications	D2	November 28, 2024 - 1030-1115
3243	Elmar Francisco, Ronnel Agulto, Nilo Arago, Arjun Ansay, Gensen Carino and Lejan Alfred Enriquez	Automated File Storage and Retrieval System with Robotic Arm for Cloud-Based Printing	E4	November 28, 2024 - 1430-1515
3251	Wendell Gonzales, Stephenn Rabano, Roy Maranan, Carol Matira, Larilyn Ilaio, Darwin Tiquio, Kristine Tablo and Marife Rosales	Web-Based Distribution Transformer Load Monitoring System Design	C3	November 28, 2024 - 1330-1415
3277	Arnold Paglinawan, Flordeliza Valiente, George Paolo Aloyon, Brylle Joseph Doctor, Den Christian Uniforme and Chester Tan	Design of a 4-Switch Bidirectional Buck-Boost Converter Using GaN FETs	C4	November 28, 2024 - 1430-1515
3290	Neil Oliver Velasco, Ervin Raphael Alba, Hanz Mikhail Bañas, Vince Craig Buenaventura, Geoffrey Sta. Monica, Deian Angelo Wijangco, Ann E. Dulay, Marnel Peradilla, Rhen	Design and Simulation of Circular Microstrip Patch Antenna Array Using MATLAB	C2	November 28, 2024 - 1030-1115

	Anjerome Bedruz and Aaron Don M. Africa			
3291	Pryam Flores, John Michael Castillo, Hannah Zoe Rentiquiano, John Carlo Bisquera and James Patrick Acang	Recognizing Strikes in Arnis Combat Sport Using Inertial Time-Domain Signal Features	E4	November 28, 2024 - 1430-1515
3339	Wilén Melsedec Narvios, Lorenz Gerard Batusin, Mathew Donor, James Duno, Marcpolo Aron Pata, Jayson Jueco, Ferdinand Batayola, Marvin Radaza, Xavier Julian Fernandez and Joecyn Archival	Application of Gramian Angular Field Images and Support Vector Machine for Computational Partial Discharge Event Detection in Transmission Lines	C4	November 28, 2024 - 1430-1515
3364	Anna Lorraine Gines, Sayren Shakira Mondala, April Joy Palitayan, Rowena Vennessa Gayagoy and Perlita Tiburcio	Effects of Quality Service Dimensions on Customers' Retention in Dot-Accredited Three-Star B&B Establishments in Solano, Nueva Vizcaya	F6	November 28, 2024 - 1630-1715
3368	Jeremias Gonzaga, Francine Palencia, Charlene Capulla and Laurence Gan Lim	Evaluation of the Growth Characteristics of Lettuce (<i>Lactuca Sativa</i>) in an Open type Indoor, Outdoor Vertical Hydroponics and Closed-type Hydroponic System	H4	November 28, 2024 - 1430-1515
3381	Giovanni Maria Elloso and Philip Ermita	Simulation and Analysis of a Proposed Thermal Expansion System Utilizing Nitrogen	B3	November 28, 2024 - 1330-1415
3421	Jela Mae Ventura and John Heland Jasper Ortega	Persona-rama: An Explainer Video Series Advocating for Niche Affinity Spaces of Fanfiction, Furrries & VTubers in the Filipino Digital Landscape	F6	November 28, 2024 - 1630-1715
3459	Kathryn Tria, Ryan Manuel Guido, Kristine Opuencia and Rodolfo Ducut	A Comparative Analysis of Research Performance in Organizational Behavior and Human Resource Management among Southeast Asian Countries: Exploring Philippine Research Culture	F6	November 28, 2024 - 1630-1715
3480	Arnold Paglinawan, Flordeliza Valiente, Ciarra Joy Arago, Anna Maia Ignacio and Billie Charles Cruz	Design of a 200W Two-FET Forward Converter for dimmable LED lighting application	C5	November 28, 2024 - 1530-1615
3519	Ronnel Agulto, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco, Jalen Andre Barcelona, Anton Luis Boquer, Roberto Jaime Salvador and Daniel Iñigo Soriano	Simulation of a PID Controller for 2D Vehicle Trajectories using C++/C in Linux Terminal	I2	November 28, 2024 - 1030-1115
3538	Ryan Manuel Guido, Aleli Rey, Rose Ann Bautista and Princess Tucio	Exploring Civil Engineering Research in the Philippines: A Scientometric Investigation	I3	November 28, 2024 - 1330-1415
3569	Matthew Roque, Nicole Abejuela, Melvin Cabatuan, Shirley Chu, Michael Ng, Hans Nolasco and Jenine Valencia	Harnessing NLP for Legal Section Retrieval: Embedding Models in Philippine Taxation Law	D3	November 28, 2024 - 1330-1415
3572	Christian Mallari, Myka Cruz and Doctor Philip	CyberEscape: A Mobile Educational Escape Room	F6	November 28, 2024 - 1630-1715

		Application for Networking Fundamentals		
3593	Fredelino Galleto Jr., Aaron Don Africa, Rhen Anjerome Bedruz, Marnel Peradilla, Ann Dulay, Gia Kyla Guevarra, Michael Angelo Obciana, Keane Dwight Sulit, Bettina Gaille Dayrit, Mariah Venice Rodriguez and Chrismon Elijah Mansilungan	Designing an Improved Microstrip Antenna Array for IoT-based Healthcare Monitoring using MATLAB	A3	November 28, 2024 - 1330-1415
3618	Neil Oliver Velasco, David Zachary Gochuico, Hazel Melody Chua, Aidan Matthew Ong, Irabelle Pristine Tan, Ann E. Dulay, Marnel Peradilla, Rhen Anjerome Bedruz and Aaron Don M. Africa	Improving the Effectiveness of a Simulated Microstrip Antenna for GPS using Control Systems	C3	November 28, 2024 - 1330-1415
3628	R-Jay Relano, Ronnie Concepcion II, Kate Francisco, Ryan Rhay Vicerra, Argel Bandala and Elmer Dadios	Negative Selection Algorithm-based Fault Detection and Isolation for Six Degree-of-Freedom Robot	A4	November 28, 2024 - 1430-1515
3685	Blessed Mira Ebreo, Jan Precious Mejia, Jhana Roann Tabing and Michael Gatchalian	The Effect of Perception of Artificial Intelligence in its Integration in Philippine Commercial Banking Operations	D3	November 28, 2024 - 1330-1415
3690	Joland Garcia, Reden Hipolito, Lara Katrina Santos, Carlo Serrano, Mark John Santos, Alma Tanguangco, Loie Serrano and John Mark Policarpio	Photovoltaic (PV) System Sizing Software for Optimal Design of Solar Systems in Residential and Commercial Enterprises	B3	November 28, 2024 - 1330-1415
3736	Jayson Jueco and Wilen Mersedec Narvios	Image Encoding for Load Forecasting in Visayas Subgrids	D3	November 28, 2024 - 1330-1415
3790	Mary Jane Arcilla and Ryan Ebarido	An Analysis of a Credit Card-Based Online Community Using the Sense of Community Theory	F7	November 29, 2024 - 0930-1015
3794	Mary Anne Sahagun and Angel Heart Guinto	Seeing Beyond Sight: Enabling the Visually Impaired to Identify Philippine Currency Bills Through Machine Learning	A5	November 28, 2024 - 1530-1615
3807	Cheryl Lyn Ayuste, Princess Tucio, Ryan Manuel Guido, Christopher Malay, Richard Nepomuceno, Cristopher Parmis, Zarina Kate Laggui, Francis Lirag, Cheryl Basaca, Elena Mercado, Roberto Lacson, Leah Lacson and Blesshe Querijero	Species Diversity, Community Structure and Allometry of Mangrove Ecosystem in Calatagan, Batangas, Philippines	H3	November 28, 2024 - 1330-1415
3839	Alaine Tess Cabije, Jeonel Lumbab, Leo Nhel Abao, Teresita Capin, Maria Gemel Palconit and Jayson Jueco	Combining Generative AI, Self-Organizing Maps, K-means, and Classification Model in Modeling Green Facade Preferences across Gender in Residential Building	E4	November 28, 2024 - 1430-1515
3852	Rogelio Jr Bersano, Noel Estoperez and Michael Pacis	Optimal Scheduling of Flexible Loads in Virtual Power Plants	B4	November 28, 2024 - 1430-1515

		Using a Pool-Based Pricing Strategy		
3883	Ace Lagman, Fernand Layug, Richmond Carabeo, Bernard Bullicer and Reynaldo Merced Jr.	Evaluation of Predictive System of Dropout Risk in Alternative Learning System Using Technology Acceptance Model and Confusion Matrix Analysis	F7	November 29, 2024 - 0930-1015
3902	Armie Pakzad, Aaron Don Africa, Ronnel Agulto, Ann Dulay, Neil Oliver Velasco, Keno Lorenzo Enriquez, Pierre Justine Parel, Jiro Renzo Tabiolo and Ercid Bon Valencerina	Predicting Philippine Stock Market Prices Using Linear Regression Models in Linux with C++	D4	November 28, 2024 - 1430-1515
3952	Anthony Li John Velasquez, Ira Valenzuela, Marielet Guillermo, Elmo Mandigma and Alexi Alberto	Economic Opportunity Evaluation of Farmer's Quality of Life using Fuzzy Logic	H5	November 28, 2024 - 1530-1615
3961	Roland Simbre, Ronald Pancho, Adulfo Arevalo, Claro Mananquil, Avillardo Clarin and Rosalia Arao	Hydroponic Systems for Sustainable Agriculture and Environmental Sustainability: Urban Farmers Perspective	H3	November 28, 2024 - 1330-1415
4049	Louie Shane de Leon, Sophia Claire Mirafelix, Adrian Natividad, Marc Wesley Tuana and Krister Ian Daniel Roquel	Using Artificial Neural Networks as an Alternative Method for Estimating Pavement International Roughness Index	I3	November 28, 2024 - 1330-1415
4071	Carl Christian Chaguile, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco and Ronnel Agulto	A Rough Set Theory Approach for Rule-Based Knowledge Optimization of IoT Datasets	D5	November 28, 2024 - 1530-1615
4098	Mary Christiene Courtney Alegre, Abigail Grace Ong, Aaron William Sy, Alyssa Saludo, Lance Harley Chua and Jayne Lois San Juan	Multi-Objective Optimization of Biomass- Geothermal Power Plant Operations	B4	November 28, 2024 - 1430-1515
4141	Bin Li and Ralph Gerard Sangalang	A sub-12 dB C-MIMO array design for millimeter-wave RADAR applications	C5	November 28, 2024 - 1530-1615
4150	Ronald Pancho, Claro Mananquil and Arevalo Adulfo	Usage and Experience in Navigating Connectivity through Ride-Sharing Technology-Driven Application: Consumers' Perspective	I3	November 28, 2024 - 1330-1415
4155	Deborah Brosas, Lyra Nuevas, Ritchell Villafuerte and Dindo Obediencia	Machine Learning-Based Identification and Maturity Classification of Banana Variants in the Philippines	H4	November 28, 2024 - 1430-1515
4159	Roldeo Rien Asuncion, Maxine Jane Rodrin, Selverino Magon and Argel Bandala	Technology Adoption of Electronic Control Systems in Enhancing Patient Care in the Philippines	A4	November 28, 2024 - 1430-1515
4179	Darrel Cardaña, Max Angelo Perin, Nelia Catayas, Cecilia Gumanoy and Sheila Tabuno	Text Analysis of Academic Research Titles of Selected State Universities and Colleges(SUC) School in Bohol using Natural language processing (NLP)	F7	November 29, 2024 - 0930-1015
4272	Julio Manuel Diokno, Allen Philip Matias, Ellysa Pua, Fiorell Ernest Rodriguez, Aliah Jean Tan, Robert	Smart Aerial Drone Vision System for Automated Road Damage Detection	I4	November 28, 2024 - 1430-1515

	Kerwin Billones, Richard Josiah Tan Ai, Noel Gunay and Sharina Yunus			
4298	Rodelina Taberna, Jenny Rose Carpio, Richel Jabon, Renzlej Tayaban and Kobe Guinid	The visibility, clarity, and acceptability of prototype chevron road safety signages using recycled polyethylene terephthalate (PET) materials	I4	November 28, 2024 - 1430-1515
4327	Princess Tucio and Franchette Amabelle Castillon	The Impact of Rainfall and Temperature on Sugarcane Production in Negros Occidental	B4	November 28, 2024 - 1430-1515
4337	Ariel Sebastian Manlapaz, Ronald Miguel, Marco Nucup, Jay-Em Quiambao, Gilbert Regala, Arvin Kent Samonte, Rhoderick Favorito and Anthony Tolentino	Forecasting the Impact of Electric Vehicle Charging Station Pitstop on the Power Grid by Strategic Location, Load Calculation, and Load Management: A Basis for Policy Making	I4	November 28, 2024 - 1430-1515
4347	Wang Jinhui, Daniel Dasig Jr, Ren Yuanqing and Fernando Talion	Digital Empowerment in Manufacturing: Pathways and Strategies for Achieving Efficient Operations	G2	November 28, 2024 - 1030-1115
4363	Adulfo Arevalo, Avillardo Clarin and Estephany Gerona	Dynamic Interactions Between Residential Real Estate Price Index, Inflation, and Economic Growth in the Philippines: A Vector Autoregression Approach	F7	November 29, 2024 - 0930-1015
4479	Fredelino Galleto Jr., Aaron Don Africa, Rhen Anjerome Bedruz, Marnel Peradilla, Ann Dulay, Raphael Karlo Santiago and Ej Garrett Sosa	Temperature Compensation Control System and Pseudocode Algorithm for Next Generation 6G Microstrip Antennas	C4	November 28, 2024 - 1430-1515
4494	Vince Andrei Dela Paz, Marian Lubag, Joaquin Antonio Dayrit, Grahm Lawrence Etorma, Ronnie Concepcion II, Bernardo Duarte and Argel Bandala	Mathematical Design and Monochrome Encoding of an Optimal Controlled Growth Chamber System for Pleurotus Ostreatus	H5	November 28, 2024 - 1530-1615
4551	Jessie Balbin, Audrey Shaleen Garcia, Joshua Benito, Bryan Gabriel Ruelos, Lucky Roveel Arco, Dwayne Josh Abanes and Benjie Guiwo Jr.	KinderGuard: AI-powered Android Children Protection System	F15	November 29, 2024 - 0930-1015
4554	Jessie Balbin, Kallista Coleen T. Antenor, Allana Kyle H. Deang, Sumin Yoo, Marlon Jim Garino, Benjie Guiwo Jr., Noel Salalila and Esperanza Chua	Robotic Arm Surgery vs. Human Hand Surgery: A Comparative Analysis for Minimally Invasive Procedures	A6	November 28, 2024 - 1630-1715
4595	Luisiana Mae Roasa, Jhon Mclean Rodriguez, John Evan Ursolino, Zoren Mabunga, Jennifer Dela Cruz and Alejandro Ballado	Voice Recognition Device for Immediate Assistance Integrated with Mobile Application	A7	November 29, 2024 - 0930-1015
4684	Ramon Garcia, Romuel Josue Miranda and Alwin Palma Jr.	Enhancing YOLO v5's Object Detection with Precise Position and Elevation Determination using Azimuth Formula	E5	November 28, 2024 - 1530-1615
4754	Asil Kastle Dela Cruz, John Lydon Sanchez, Ericsson Aenlle, Monaliza Delfin, Zylla Mhae Ferrer, Josephine	Rotten Egg Sorter System Using Convolutional Neural Network and Image Processing	E5	November 28, 2024 - 1530-1615

	Huertas, Roane Nucum and Yuen Nicdao			
4759	Ren Yuanqing, Wang Jinhui, Daniel Dasig Jr, Felicisima Rafael, Fernando Talion and Eleonora Claricia	Green Innovation Strategies in Sustainable Operations Management: Balancing Environmental and Economic Performance	B5	November 28, 2024 - 1530-1615
4798	Ria Marie Cordova, Dj Michaelangelo Gunay, Mill Christian Gunay, Chain Roida Amor Diomahali and Noel Gunay	A Deep Learning-Based Vehicle Detection, Tracking, and Counting of Tricycles in General Santos City	I3	November 28, 2024 - 1330-1415
4811	Lawrence Orjalesa, Christian Solon, Alexis Keith Bontuyan, Alaine Tess Cabije and Jayson Jueco	Evaluating Sugarcane Press Mud Additive for Expansive Soil Stabilization	B4	November 28, 2024 - 1430-1515
4832	Mary Anne Sahagun	Understanding Learner's Experiences: Sentiment Analysis in E-Learning during Digital Transformation	F8	November 29, 2024 - 0930-1015
4906	Rafran de Villa, Chuckler Canon, Ralph Dela Victoria, Alexander Llesol, Kent Ivan Unabia, Cheryl Ann Villamor and Jayson Jueco	Combining Intelligent Data Acquisition and Fermentation Level Classification for Local Cacao Beans in Cebu	H4	November 28, 2024 - 1430-1515
4929	Teofilo Antolijao, Siem Mayol, Rommel Canencia, Deolinda Caparoso, Marlito Patunob, Mario Jr Pepino, Jonathan Miraballes and Jayson Jueco	Performance Analysis of Multi-feature Data-to-Image Encoding across Different Clustering Methods for Labeling Anomalous Machine Data under Predictive Maintenance	D4	November 28, 2024 - 1430-1515
4963	Ruby Rosa Puno, Asil Kastle Dela Cruz, Celbin Mar Alcantara, Caleb Cayanan, John Kenneth Doliente, Herrico Arthwyn Herrera and Aldrian Tallada	MAPEL: Malan to Papel - Textile Waste to Paper Converter	G3	November 28, 2024 - 1330-1415
5032	Giovanni Maria Elloso and Philip Ermita	Redesigning a Four-Stroke Engine Utilizing Compressed Air Energy: A Thermal Systems Approach	G3	November 28, 2024 - 1330-1415
5043	Kent Espejon, Jaymer Jayoma and Kier Patrick Empang	Hybrid A and Inverse Ant Algorithm for Adaptive Pathfinding in Constrained Node Networks	D4	November 28, 2024 - 1430-1515
5052	Ramon Garcia, Kyle Marc Cotejo, Chelsea Gail Dones and Charmaine Paglinawan	Detection of Spinal Curvature through Foot Pressure Analysis Using Pressure Sensor Matrix with Implementation of Support Vector Machine (SVM)	A7	November 29, 2024 - 0930-1015
5101	Florante Jr Poso and Jaychris Georgette Onia	Evaluating the Impact of Cohesion on Slope Stability through Numerical Modeling	F8	November 29, 2024 - 0930-1015
5173	Fredelino Galleto Jr., Aaron Don Africa, Ann Dulay, Rhen Anjerome Bedruz, Marnel Peradilla, Adrienne Josh Sianghio, Cyrel Ace Lejeta and Lawrence Kerwin Amar	Microstrip Antenna Pseudocode Algorithm Design for 6th Generation Perspective Communication Control Systems	C5	November 28, 2024 - 1530-1615

5192	Nathan Ang, Patricia Louise Guerrero, Migz Edgar Namoc, Wesley Brian Sy, Patricio Martin Visda, Selverino Magon and Argel Bandala	Simulation and Analysis of an Infrared-Based Intrusion Detection System	C6	November 28, 2024 - 1630-1715
5239	Angelo Arguson, Jose Ian Miguel De Leon, Leigh Reign Ascaño, Brylle Miguel Andres and Mark Revin Fragata	Augmentative and Alternative Communication Tutor for Filipino Preschoolers: A tool for predicting rapid guessing using Decision Tree	F8	November 29, 2024 - 0930-1015
5296	Anton Louise De Ocampo, Romel Briones, Mars Panganiban, Herbert Banados Jr., Melmar Eje, Myrna Garcia and Mark Justine Domingo	Dual-sense irrigation system using infused weather and soil data for efficient water management	B5	November 28, 2024 - 1530-1615
5307	Ralph Perdido, Wilben Christie Pagtaconan and James Patrick Acang	Cloud-Based Document Preservation System for Institutional Document Registry	D5	November 28, 2024 - 1530-1615
5401	Lemuel Apusaga, Earl John Geraldo, Jose Bernardo Iii Padaca and Key Simfroso	Verification of Impeller Casting Design with Solidification Simulation	G3	November 28, 2024 - 1330-1415
5420	Felix Sy, Rychell Alingarog, Jim Jayron Choy, Robert Kerwin Billones, Jason Española, Jeffrey Dellosa and Edi Triono Nuryatno	Chest Radiograph Analysis for Pulmonary Disease Pre-Diagnosis Using CNN and DenseNet Models	A4	November 28, 2024 - 1430-1515
5424	Ma.Corazon Fernando, Jay-Ar Lalata and Roman De Angel	O Ektos (The Sixth) - A 3D-PC Real-time Strategy Game for Raising Awareness on Clean Water and Sanitation	B5	November 28, 2024 - 1530-1615
5513	Billy Alipala, Jerick Altamerano, Eira Minette Dimaculangan, Kyrelle Chesty Francisco, Martin Andrei Santos, Cristian Lazana, Edwil Versoza and Argel Bandala	AI-Read: Design and Development of a Servo-controlled Braille Cells with OCR-based Multimodal Braille Display for the Blind	E5	November 28, 2024 - 1530-1615
5524	Cedric Leopold Yu, Stacy Selena Kalaw, Alyssa Ysabelle Meneses, Richard Sy and Roger Luis Uy	Integrating Lock-Free Multithreading to Zhang's Six-Frame Alignment Algorithm	D6	November 28, 2024 - 1630-1715
5535	Wilens Mersedec Narvios, Ivan Carlo Bonghanoy, Urim Colegado, Daryl Gilbuena and Jayson Jueco	Extracting Coconut Inflorescence Sap using Internet-of-Things Automation Towards Optimizing Harvest Time and Farmer's Workload	H5	November 28, 2024 - 1530-1615
5638	Maria Gemel Palconit, Howard King Cagigas, Alvin Vergara, Jebern Vergara, Gilbert Silagpo, Joel Tadle, Jayson Jueco and Jun-Jun Obiso	Bus Tracking, Seat Vacancy Monitoring and Reservation Using an Android Based Mobile Phone Application	I5	November 28, 2024 - 1530-1615
5648	Ronalyn Altizo, Maryjoyce Princess Apiit, Nestlyn Ayra De Jesus, Angie Dela Pena, Lilibeth Pulista, Gissel Pakala, Jovelyn Detablan and Sheena Arzadon	Language Learning Strategies and its Relationship on the Performance in the English Proficiency Test of Grade 11 Students	F8	November 29, 2024 - 0930-1015
5649	Glenn Magwili and John Peter Ramos	Development of a Crown-of-Thorns (COTS) Starfish Detection and Counting Application using SSD MobileNet v1 and Centroid Tracking	B5	November 28, 2024 - 1530-1615

5714	Ramon Garcia, Romuel Josue Miranda and Alwin Palma Jr.	Implementation of Distance Approximation Technique for Objects using YOLO v5 Bounding Boxes and Trigonometry	E7	November 29, 2024 - 0930-1015
5729	Mark Eullysis Alzaga, Shania De Vera, Angelica Gwen Macaslin, Alyssa Paranas and Katrina Ciara Pascual	Automated Rice Sieving Device with Heat-Controlled System for the Reduction of Sitophilus oryzae	H5	November 28, 2024 - 1530-1615
5793	Marc Adrian Yu, Michael Francis Ayapana and Ronnie Concepcion	Development of a Wearable Arm Support Prototype for Ultrasound Specialists and Sonographers through Additive Manufacturing and Simulation	A5	November 28, 2024 - 1530-1615
5801	Ruby Rosa Puno, John Vincent Mendoza, Mark Stephen Liwanag, Daevy Caluscusan, Vincent Cumayas, Satchii Luis Dimalanta, John Maverick Exequiel and Alonzo Luis Pamintuan	TWOP (Tools, Weapons, Objects, Potter): Using Structured Light 3D Scanner on Pampanga's Historical Artifacts	G3	November 28, 2024 - 1330-1415
5865	Jeanette Pao, Immanuel Paradela, Irish Mae Lariosa and Carl John Salaan	Drone-based Depth-Specific Water Sampling Device	B6	November 28, 2024 - 1630-1715
5872	Jessie Balbin, Audrey Shaleen Garcia, Joshua Benito, Lucky Roveel D. Arco, Dwayne Josh Abanes, Bryan Gabriel Ruelos and Benjie Guiwo Jr.	Unveiling the Power Players: A Comparative Analysis and Development of Next-Gen SoCs for Android (Mediatek, Exynos, Tensor, Qualcomm)	C6	November 28, 2024 - 1630-1715
5879	Wai Kei Li, Justin Ayuyao, John Carlo Joyo, Renz Ezekiel Cruz and Roger Luis Uy	Leveraging Deep Reinforcement Learning for Pairwise DNA-Protein Sequence Alignment	A5	November 28, 2024 - 1530-1615
5890	Joseph Gonzales, Angelo Arguson, Ace Lagman and Roman De Angel	Alumni Tracer Monitoring Platform with Decision Support Feature using Time Series Analysis	F9	November 28, 2024 - 1630-1715
5909	Evan Socrates Yap, Faith Baldonado, Jonathan Solano, Earl Ryan Aleluya, Lady Angel Sebumpan, Ivan Michael Mascardo, Christer Jon Encabo, Riza Mae Bote and Carl John Salaan	Initial Development of Tilapia Fingerlings Counter Machine with Smart Camera	H6	November 28, 2024 - 1630-1715
6066	John Angelo Repollo and Melba Besa	URBANIHAN: A 2D Animated Informative Video and Website Introducing Youth into Urban Gardening	F9	November 28, 2024 - 1630-1715
6165	Michael John Mayor, Lester Joshua Mayuga, Monalisa Uysin, Dionis Padilla, Carlos Hortinela and Analyn Yumang	Text-to-Speech Implementation with Deep Learning Using Tacotron2 and HiFi-GAN	D5	November 28, 2024 - 1530-1615
6242	Alyssa Victoria Chua, Abbi Jade Esporna, Claire Anne Magtibay, Robert Kerwin Billones, Claire Receli Renosa, Jeffrey Delloso and Edi Triono Nuryatno	Muscle Fatigue Characterization using Force Measurements and EMG Signal Processing	A6	November 28, 2024 - 1630-1715
6244	Rafael Dimaculangan, Mike Lawrence Ruivivar, John Maori Gran, Tim Harold Faisan, Krizel Joy Cayetano,	Development of a Four-Storey Elevator Trainer for an Enhanced PLC and HMI Programming Skills	F9	November 28, 2024 - 1630-1715

	Michael Natividad, Raymond Joseph Meimban and Danilyn Joy Aquino	of Electronics Engineering Students		
6306	Zenaida Esporton, Jennyca Acosta, John Dave Gallibu, Princess Mae Padua, Marice Tampor and Lea Hob	Evaluating the Impact of Physical Learning Resources on the Learning Performance of Criminology Students at Aldersgate College Inc.: A Guide for Improvement	F9	November 28, 2024 - 1630-1715
6377	Jude Allan Urmeneta and Jessie Richie de Los Santos	A Crop Growth Smart Farming Application with e-commerce Integration	H6	November 28, 2024 - 1630-1715
6392	Sieje Johannes Pua, Earl Jerome Miranda, Rommel Dela Cruz and Noe Enriquez	Design and Development of Hunger Heroes: A Web-Based Platform for Donation-Driven Inventory Management	F10	November 29, 2024 - 0930-1015
6400	Vincent Andrew Mikeael Mataragnon, Ralph Samuel Lacambra, Tyrone Angelo Bustria, Mae Pia Flor Cawaling, Anastine Beatrice Josue, Ronnie Concepcion II, Argel Bandala and Mark Christian Felipe Redillas	Perspectives on Integrating Imaging, Spectral Analysis, and Electrical Impedance for Non-Destructive Prediction of Plant Biochemical Concentrations	H8	November 28, 2024 - 1630-1715
6428	Jay Robert del Rosario, Bianca Mikaella De Villa, John Carlo Theo Dela Cruz, Pierre Justine Parel, Ercid Bon Valencerina and Argel Bandala	Design and Application of PIC16F877A in a Heart Rate Zone Monitoring Device for Anaerobic Activities.	A6	November 28, 2024 - 1630-1715
6437	Jayson Jueco, Oscar Jhon Arnado, John Manuel Carcuevas, Fer Joshua Intud, Gerald Prandas, Ferdinand Batayola, Marvin Radaza, Xavier Julian Fernandez, Ike Baguio, Maria Gemel Palconit and Wilen Melsedec Narvios	Performance Analysis of Time Series-to-Image Encoding Across Different Clustering Methods for Labeling Anomalous Load Data in Selected Visayas Subgrids	D6	November 28, 2024 - 1630-1715
6464	Arlene Mae Valderama, Amelita Ortiz, Rhoda Fabe, Ronel Ramos, Ari Happonen and Manuel Garcia	Unpacking Freshmen Aspirations and Expectations in Their Enrolled College Degree Programs: A Sentiment Analysis Approach	F10	November 29, 2024 - 0930-1015
6475	Roland Simbre	Philippine Government Support on the Sustainable Livelihood Programs for the Dumagat-Remontado Indigenous Tribe	F10	November 29, 2024 - 0930-1015
6496	H M H S Herath, J M M G Jayaweera, J M Y Jayasinghe, K M T D Randeni, N C Amarasena, S C Rathnayake and S N Chandanathilaka	Crafting Tomorrow's Trends with Automated Precision, Efficiency, and Faultless Excellence in Apparel Industry for Medium Scale Businesses	G2	November 28, 2024 - 1030-1115
6516	Mary Jane Arcilla, Mig Franz Brosoto, Martin Miguel Murillo, Maria Samantha Bettina Paulino and Ze Long Zhuang	Development of a Contract Management System for a University's Legal Counsel Office	F10	November 29, 2024 - 0930-1015
6574	Sean Daniel Lu, Lalaine Asis, Jessica Chriselle Basa, Harry David Menguito, Jovanie Ivan Padilla, Cristian Lazana, Edwil Versoza, Argel Bandala and Liezl Asis	Chick-Check: Design and Development of of a Feather Sexing Machine for Chicks using Yolov10 and UV Optical System	H6	November 28, 2024 - 1630-1715

6656	Ronel Ramos, Joseph Calleja, Sam Bruce Albert Garcia, Mikael Bachecha, Reign Christoffer Eustaquio and Jamie Gamboa	SPOT N' GO: An Interactive Web-Based Promoting for Best Places to Go In The City of Manila	E7	November 29, 2024 - 0930-1015
6659	Huiting Yu, Rowell Hernandez and Anton Louise De Ocampo	Attention-based spectral gain modifications applied to speech noise suppression	C6	November 28, 2024 - 1630-1715
6691	Ryan Manuel Guido, Magno Quendangan, Jason Kalaw and Junver Pagaura	Evaluating the Publication of SDG6 Research in the Philippines: Assessing and Identifying Unaddressed Areas for Policy	F11	November 28, 2024 - 1330-1415
6712	Gerome Antido, Mark Daniel Bisac, Karl Erbin Viernes and James Patrick Acang	Instrument Independent Chord Recognition Using Lossless-to-Lossy Transcoding in Homophonic Audio Signals	C6	November 28, 2024 - 1630-1715
6778	Ma. Corazon Fernando, Maria Vicky Solomo and Roman De Angel	Mediskolar: A Web-Based Scholarship Management System with Profile Analysis Using Analytical Hierarchy Process (AHP) and Decision Tree Algorithm for Marikina City	F11	November 28, 2024 - 1330-1415
6801	Angelyn Ilagan, Alexis Fillone, Nicanor Jr Roxas, Maria Cecilia Paringit and Raymund Paolo Abad	Evaluating Perceptions on Environmental Walkability Indicators in a Subtropical Highland Tourist City	I5	November 28, 2024 - 1530-1615
7023	Jayson Jueco, Norman Digma Romulo, Chrisley Jake Anahaw, Allen Vincent Navesis, Antonio Jose Tuazon, Ferdinand Batayola, Marvin Radaza, Xavier Julian Fernandez, Wilen Melsedec Narvios and Maria Gemel Falconit	Univariate Electricity Demand Transfer Forecasting Framework under Data Scarce Scenario in Selected Visayas Subgrids	B6	November 28, 2024 - 1630-1715
7026	Marvin Radaza, Xavier Julian Fernandez, Jojemar Eserell Bacalan, Yves Vhenston Formentera, Raymund Jan Relatorres, Wilen Melsedec Narvios, Ferdinand Batayola, Joecyn N. Archival and Jayson Jueco	Towards Optimal Oyster Mushroom Growth under Multiparametric Internet-of-Things Automation	H7	November 29, 2024 - 0930-1015
7048	Krystel Alyssa Morales, April Joy Capinpin, Zyrell Ann Manuel and Marilyn Acob	Effectiveness of Continuing Professional Development to the Career Growth of Certified Public Accountants in Nueva Vizcaya	F11	November 28, 2024 - 1330-1415
7080	Bon Ryan Aniban, Kevin Lawrence De Jesus and Sheina Pallega	Optimizing Compressive Strength of Concrete with Cocos nucifera Ash under Varying Thermal Treatment Conditions: A Response Surface Model Approach	G4	November 28, 2024 - 1430-1515
7190	Karen Lodronio, John Heland Jasper Ortega, Abigail Alix and Ace Lagman	Bobot Maglilibot: A Hybrid Animated Film with Digital Campaign to Bolster Manila City Tourism for the Department of	F11	November 28, 2024 - 1330-1415

		Tourism, Culture, and Arts of Manila		
7212	John Austin Cipriano, Beign Patrick Canonizado, Jonathan Carganilla, Arnie Lopez and Shean Allen Abon	Investigating The Sound-Absorbing Quality of The Prototypes: Soundproofing Panels Made of Rice Hull, Combined Rice Hull and Abaca Fiber in Varying Proportions	B6	November 28, 2024 - 1630-1715
7229	Ma. Corazon Fernando and Jay-Ar Lalata	Leshy: A 3D Action-adventure Game Using Character Switching Mechanics For Promoting Awareness On Combating Forest Devastation	F12	November 28, 2024 - 1430-1515
7231	John Peter Ramos, Cherry Mae Bunag, Ivy Buscar, Jomer Catipon, Geuel Darvie Cuervo, Jeffrey Equipaje, Elmar Francisco, Zyrine Lagman, Mark Melegrito and Jessica Velasco	Internet of Things (IoT)-Based with Solar Panel- Powered Wattage Management Environmental Monitoring and Control System for Mushroom Cultivation and Mushroom Yield Production Optimization	H7	November 29, 2024 - 0930-1015
7233	Melody Mae Maluya, Earl Ryan Aleluya and Carl John Salaan	Flexible and Rigid Pavement Binary Classifier using Vision Transformer	E6	November 28, 2024 - 1630-1715
7258	Alyn Joy Baltazar, Denver Jhon Calantoc, Paulino Gatpandan, Mengvi Gatpandan, Rudolph Val Guarin, Daniel Dasig Jr. and Mary Ann Tadyo	Decoding Market Trends and Performance in Cryptocurrencies: A Data-Driven Approach to Investment Potential	F12	November 28, 2024 - 1430-1515
7260	Jasel Ann Parayao, Jamaica Arielle Tan, Ira Valenzuela and Robert Kerwin Billones	A Quantitative Analysis of Iced Coffee as an Energizing Agent to Sleep-Deprived Individuals based on Electroencephalogram and Electrocardiogram Signals	C7	November 29, 2024 - 0930-1015
7293	Rizni Dela Vega, Shaine Ann Gache, Kyeong Nan Gim, Analyn Yumang and Dionis Padilla	Speech to text: A Natural Language Processing Utilization to Herbal Plant Identification	D6	November 28, 2024 - 1630-1715
7346	Michael Pacis and Noel Salalila	Design of Samar and Leyte Generating Power Plants using Exponential Smoothing Forecasting Technique	B6	November 28, 2024 - 1630-1715
7444	Julie Ann Bello, Mary Heishelle Hernandez and Ronel Simon	Facial Verification For Senior Profiling using Haar Cascade Algorithm	E6	November 28, 2024 - 1630-1715
7575	Ace Lagman, Ian Cedric Ramirez, Allen Paul Esteban, Reden Paul Rivera, Ronnel Delos Santos and Roland Calderon	Development and Evaluation of an EnterpriseLevel Information System for Digital Governance in Philippine SUCs using Agile Software Methodology and ISO/IEC 25010 Software Quality Model	F12	November 28, 2024 - 1430-1515
7620	Ericson Dimaunahan, Charmaine Paglinawan, Jude Vincent Estabillo and Jeremy Ross Lopez	Face Detection and Recognition for Attendance Checking using YOLOv5 in Mapua University	E1	November 28, 2024 - 0930-1015

7622	Hammida Sumpingang, King Fredrick Sol and Marirose Vocal	N'Synk: A Mixed-Use Urban Hub and Wellness Complex, Integration of Sensory Design Towards 'Reshaping Life in the City', Taguig City	I4	November 28, 2024 - 1430-1515
7625	Ryan Luciano and Hana Astrid Canseco-Tuñacao	The performance of fine recycled concrete aggregates (FRCA) as masonry grout	B7	November 29, 2024 - 0930-1015
7677	Gilbert Silagpo, Jhonard Lanit, Kathleen Mosqueda, Santos Jr Maspara, Maria Gemel Palconit, Rafran de Villa, Cheryl Ann Villamor, Jun-Jun Obiso, Joel Tadle and Jayson Jueco	Real-time Vehicle CO and Speed Tracking via Internet-of-Things and A* Search Algorithm	I5	November 28, 2024 - 1530-1615
7723	Ronel Ramos, Ace Lagman, Roland Calderon, Allen Paul Esteban, Jahleine Marielle Manalad and Leah Sansano	Digital Governance Enterprise-Level Platform Using Agile Software Methodology and Technology Acceptance Model	F12	November 28, 2024 - 1430-1515
7748	Armie Pakzad, Aaron Don Africa, Ronnel Agulto, Ann Dulay, Neil Oliver Velasco, Miguel Yuri De Mesa, Elisha Belle Dela Cruz, Cynric Daniel Lozano and Brian Ramos	Real-Time Process Monitor: A Linux System Process Visualization and Management Tool	D1	November 28, 2024 - 0930-1015
7783	Ronnel Agulto, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco, Michael Judrick Aringo, Louie Que, John Matthew Enciso and Sean Patrick Tan	Development of a Linux-Based Shell Script for Secure Encryption, Decryption, and Automated Backup of a USB Storage Device	D4	November 28, 2024 - 1430-1515
7825	Jasel Ann Parayao, Ronnie Concepcion II and Nicanor Roxas	Maximizing Efficiency: Advanced Trajectory Planning for Kinova Gen 3 Robot Arm in Pick and Place Operations	E2	November 28, 2024 - 1030-1115
7857	Winnie He, Justice Campanilla, Jasmine Chua, Adrian Villanueva, Anthony Paguio, Oliver Malabanan, Lissa Andrea Magpantay and Ryan Ebardo	Can Computer Self-Efficacy and Perceived Privacy Measures Influence Patient's Telemedicine Adoption Behavior?	A2	November 28, 2024 - 1030-1115
7938	Jonathan Jr. Marcelino, Edwin Sybingco, Ronnie Concepcion II, Argel Bandala and Rowell Demdam	Classification of Corn Diseases from Leaf Images Using Deep Convolutional Neural Networks	H6	November 28, 2024 - 1630-1715
7971	Karl John Fernandez, Mart Deo Mantawil, Arjay Jewel Reno, Venus Elevencionado and Noel Gunay	Meat Grade Prediction of Yellowfin Tuna (Thunnus Albacares) Using EfficientNetB3	H7	November 29, 2024 - 0930-1015
8019	Xandricx Cadiante, Charleze Gayle Catahina, Julie Mae Catchin, Richard Dela Peña, Bernabe Estacio II and Lea Hob	The Computer-Aided Audit, Review and Testing System (CAARTS) as Preparation for the Criminology Licensure Examination: Benefits, Behavioral Outcomes, and Challenges	F13	November 28, 2024 - 1530-1615
8142	King Harold Recto, Rex Paolo Gamara and Romano Neyra	Examining Quality Assurance and Outcomes-Based Education Dynamics Through Regression Modeling for a Sustainable Electronics Engineering Program	F13	November 28, 2024 - 1530-1615

8152	Arnold Paglinawan, Flordeliza Valiente, Shariff Mannry H.B Mann Cammah, Abel Zyrone Tuboro and Nikko Johnson Deguino	Design of a 50W 24V Delta- and Wye- Three-Phase-Input Flyback Converter with Class A Conducted EMI	C7	November 29, 2024 - 0930-1015
8252	Gilbert Silagpo, Dexter Laraup, Stephen Medina, Khent Johnes Quiñanola, Hana Astrid Canseco-Tuñacao, Jun-Jun Obiso, Rafran de Villa, Maria Gemel Palconit and Jayson Jueco	Intelligent Wireless Monitoring and Anomaly Detection for Bridge Column Vibrations	G4	November 28, 2024 - 1430-1515
8342	Ken Sammuel I. Camacho, Michael Leander P. Roque, Nilo T. Bugtai, Renann G. Baldovino, Homer S. Co and Francisco Emmanuel T. Jr. Iii Munsayac	Path Planning in Vascular Environments Using Genetic Algorithm and Bi-RRT	E6	November 28, 2024 - 1630-1715
8349	Ace Lagman, Maribel Campo, Fernand Layug, Roman De Angel, Richmon Carabeo and Jayson Victoriano	Feature Selection Technique for Predicting Retention and Dropout Risk in the Alternative Learning System Using Principal Component Analysis	F13	November 28, 2024 - 1530-1615
8354	Ferdinand Batayola, Wilen Melsedec Narvios, Clark James Abellana, Cindy Claire Bandibas, John Michael Tugao, Xavier Julian Fernandez, Marvin Radaza, Joecyn N. Archival and Jayson Jueco	Application of Electrical Stimulation Towards Influencing the Germination Growth of Ginger Root Plant (Zingiber Officinale) with Causal and Regression Analysis	H8	November 28, 2024 - 1630-1715
8519	Asil Kastle Dela Cruz, Jamie Regala, Daniel Castro, Yuen Nicdao, Paula Katrine Generalao, Darnel James Alfonso and Christina Marie Jocson	Solid Waste Management in Creek using Self-Sustained Power Waste Collector with SMS User Notifier	G4	November 28, 2024 - 1430-1515
8522	John Bernardo, Lord John Mauricio, Ishin Camille Mutuc, Synel Nikka Paguio and Emmanuel Trinidad	Analysis and Comparison of Encryption Techniques in Digital Communication Systems	C7	November 29, 2024 - 0930-1015
8586	Jessie Balbin, Benjie Guiwo Jr., Andrei M. Arcellana, Dionne Marc L. Enrico and Erjay D. Yumul	From Spark Plugs to Power Cells: A Comparative Analysis of Internal Combustion Engine (ICE) Vehicles and Hydrogen Fuel Cell Electric Vehicles (FCEV) as Sustainable Transportation Solutions	B7	November 29, 2024 - 0930-1015
8688	Michael Pacis, Karl Victor Lau and Robin Matthew Sandoval	Development of an Automatic Generation Control Strategy for Hybrid Power Systems under Generation Uncertainties using MATLAB Simulink	B7	November 29, 2024 - 0930-1015
8702	Abubakar Kalil, Faith Baldonado, Riza Mae Bote, Justin Grey Jones Ballesta, John Carlo Jumao-As, Vilmor Rey Mariquit, Kyran Nisperos, Evan Socrates Yap, Lester Librado, Erman Marajas, Jonathan Solano, Carl John Salaan, Roque Requino and Jhan Erman Marajas	Automatic Coffee Bean Filling and Weighing System with Human Machine Interface Monitoring Prototype	G5	November 28, 2024 - 1530-1615

8736	Gabriel Atayde, Nicholas Amor, Jian Milanes, Franc Gunda, Ronnie Concepcion II and John Cabibihan	Interplay of Drone Technologies and Biomimetics for Enhanced Seed Dispersal in Reforestation	B7	November 29, 2024 - 0930-1015
8744	Jay-Ar Lalata	Freight Forwarding Management System with Automated Manpower Resource Allocation Using Best Fit Algorithm for Lebria Transport	I5	November 28, 2024 - 1530-1615
8765	Maysshell Dumandan, Daisylyn Lasdosi, Mary Ann Macarayan, Giovanni de Los Santos, Lorna de Los Santos and Jessie Richie de Los Santos	eLib: Learning Resource Center with Smartphone Mobile QR Scanner	F13	November 28, 2024 - 1530-1615
8847	Carl Christian Chaguile, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco and Ronnel Agulto	Data Optimization in Healthcare IoT Using Rough Set Theory: A Rule-Based Framework for Sparse Datasets	A6	November 28, 2024 - 1630-1715
8892	Carl Christian Chaguile, Aaron Don Africa, Ann Dulay, Armie Pakzad, Neil Oliver Velasco and Ronnel Agulto	The Optimization of a Rule-Based IoT Diagnostic System using Rough Set Theory	A7	November 29, 2024 - 0930-1015
8925	Jessie Balbin, Coleen Cate Francisco, Ryu Valiente, Angela Gian Junio, Rohn Miguel Fonbuena, Juliana Diane A. Tanhueco and Benjie Guiwo Jr.	Application of Augmented Reality (AR) and Virtual Reality (VR) in the Tourism Industry based on People's Experience	F14	November 28, 2024 - 1630-1715
9039	Arnold Paglinawan, Flordeliza Valiente, Allan Patrick Alonzo, Neil Christian Diche and Kevin Caindoy	1+1 Synchronous Buck Converter (250W each) in Active Current-sharing (selectable master-slave or average-current sharing) with Output ORing	C7	November 29, 2024 - 0930-1015
9087	Angela Dominique Cathedral, Robert Kerwin Billones, Andres Philip Mayol and Homer Co	Nutritional Planning: Utilizing Linear Programming for Bodybuilding Dietary Optimization	A7	November 29, 2024 - 0930-1015
9125	Nino Merencilla, Estrelita Manansala, Jamie Adrian Jamasali, Nino Pilueta, Mikail Andrei Bañas, Jannie Dimaano, Angelica Flores and Aeron Villanueva	IoT Based LPG Tank Leakage Detection with Alarm and Auto-off System	E7	November 29, 2024 - 0930-1015
9131	Deolinda Caparoso, Kent Daryl Paran, Nireza Bongo, Yhela Mae Abiñon, Rosalie Reyes, Marlito Patunob, Christian Breth Burgos, Rolina Paran and Jayson Juego	Improving Motorcycle Emissions with Zeolite-Integrated Two-Way Catalytic Converters	C8	November 28, 2024 - 1030-1115
9180	Aldus Rex Tiongson, Immanuel Parabela, Jay Ar Cuerbo and Carl John Salaan	Initial Development of an Automated Coconut Tapping Robot Prototype	H8	November 28, 2024 - 1630-1715
9208	Hiruna Lalanga, Ranaweera Dulshan, Pavani Maneesha, Pravini Wickramanayake, Nuwan Kodagoda and Jenny Krishara	Empowering Inner Development in Higher Education: Solutions for Public Speaking, Critical Thinking, Listening, and Collaborative Skills	F14	November 28, 2024 - 1630-1715
9243	Aiza Apostol, April Joy Buyayawe, Mark Meinard Ortiz and Daphne Sumila	Quality and Acceptability of Ginger-Flavored Sugar Cookies, Butter Cookies and Crinkles	G5	November 28, 2024 - 1530-1615
9253	Heintjie Vicente and Sean Allen Ayco	SynchTask: A Project Management System for L.G.	F14	November 28, 2024 - 1630-1715

		Lopez Industrial Sales and Services, Inc.		
9267	Mark Justine Domingo, Melmar Eje and Anton Louise De Ocampo	Sparse Identification for Fractional Order System Model in Collapsible Solar Power Stations	B8	November 28, 2024 - 0930-1015
9311	Arnold Paglinawan, Flordeliza Valiente, Christian Louis Galang, Justin Tomilloso and Jeremy David	Design of a 500 Watts High-voltage Input (277V) Single-phase CCM Boost PFC w/ Class A Conducted EMI	C8	November 28, 2024 - 1030-1115
9336	Jose Miguel Custodio, Joseph Aristotle De Leon, Kyle Christian Fernandez, Robert Kerwin Billones, Renann Baldovino, Allysa Kate Brillantes, John Carlo Puno and Jayson Rogelio	Comparative Analysis of Machine Learning Models for Metal Surface Defects Classification	E7	November 29, 2024 - 0930-1015
9354	Ma. Corazon Fernando and Maria Vicky Solomo	Everyday Portal: An E-commerce Platform for Everyday Streetwear Fashion with Customer Analysis using Hybrid Collaborative Filtering	F15	November 29, 2024 - 0930-1015
9405	Jay Ar Cuerdo, Jeanette Pao, Kimberly Conje, Gaylord Bendoy, Immanuel Paradela, Aldus Rex Tiongson and Carl John Salaan	Initial Development of Pneumatically Tethered Suction and Servo Motor Powered Caterpillar Robot for Concrete Infrastructure Inspection	C8	November 28, 2024 - 1030-1115
9525	Jessie Balbin, Carlos Hortinela IV, Janette Fausto, Maria Annegela C. Dionisio and Isaac Joaquin D. Salazar	ResNet50-Based Classification System for Grading Philippine Strawberries	H9	November 29, 2024 - 0930-1015
9589	Maria Gemel Palconit, Aida Julie Dumaguing, Nicole Ejurango, Angelyn Mata, Jun-Jun Obiso, Rafran de Villa, Jayson Jueco and Gilbert Silagpo	Deep Learning-Based Diseased Leaf Detection with Computer Vision and Intelligent Sensor-Based Irrigation	H9	November 29, 2024 - 0930-1015
9635	Maria Angelica De Leon, Clarie Crystal Rose Abinan, Miguel Carillo, Lee Russell Chua, Margaret Danielle Mendoza, Joseph Aldrin Chua, Gerardo Augusto, Jeremias Gonzaga and Laurence Gan Lim	Development of Cropbox System with IoT monitoring system using Lettuce as a Test Crop	H7	November 29, 2024 - 0930-1015
9689	Jan Ryan Ilano, Hannah Chrisselle Leynes and Joseph Bryan Ibarra	Performance Analysis of Luminescent Solar Concentrators: Evaluating the Efficacy of Inorganic and Organic Dyes in Power Conversion Efficiency and Reabsorption Loss	B8	November 28, 2024 - 0930-1015
9726	Mariane Leika Morales, Angel Jeanlyn Acedo, Apple Acosta, Rowena Vennessa Gayagoy and Perlita Tiburcio	The Effect of Awareness Levels on the Adoption of Environmental Initiatives Within DOT-Accredited Establishments in Nueva Vizcaya	F14	November 28, 2024 - 1630-1715
9742	John Jonarell Pena, Ryan Jeffrey Curbano and Philip Ermita	Reduction of Reject on Siomai Forming Process in Food Manufacturing Inc. using Lean Six Sigma Technique	G5	November 28, 2024 - 1530-1615
9773	Jedrek Carl Dy, Zachary Ngo, Brent Schyler Uy, Fergus Jorell Wee, Ronnie Concepcion II and Joel Cuello	Interplay of Advanced Technologies and Materials for	H9	November 29, 2024 - 0930-1015

		Marine-Based Smart Seaweed Cultivation		
9827	Earl Joshua Evangelista, Ronnie Concepcion II and Argel Bandala	End-of-Line Defect Detection of Rotor Shaking in Brushless Direct Current Motor Using 10-gene Symbolic Genetic Model	C8	November 28, 2024 - 1030-1115
9836	Ryan Manuel Guido, Magno Quendangan and Jay-Ar Villavicencio	Modeling The Research Performance of Philippine SDG4: Analyzing Trends and Impact in Education for Sustainable Development	F15	November 29, 2024 - 0930-1015
9847	James Patrick Acang, Louis Eusebius Velasco, Elohim Baculpo and Ralph Perdido	Lexical Vulnerability Assessment of Password Management Systems Using Meta-Fingerprinting	F15	November 29, 2024 - 0930-1015
9878	Florante Jr Poso and Jenny Calot	Impact of Filter Drains on Seepage Dynamics in Earth Dams: A Modeling Approach	B8	November 28, 2024 - 0930-1015