

6th Universiti Teknologi Malaysia's Undergraduate Research Conference 2023



Programme Book

25thJune 2023 DEWAN SRI PERDANA UTM JOHOR BAHRU

Welcome to the Undergraduate Research Conference, **URC 2023!**



"Undergraduate Research Conference (URC)" is an annual conference organized by the Institute of Life-Ready Graduate (UTM iLeague) and is open to all students taking Undergraduate Project (UGP) 1 and 2 courses at Universiti Teknologi Malaysia. The first URC event was held on 16 December 2018 and received encouraging response with 100 participants from various faculties.

URC aims to provide a platform that allows participants to showcase their research work, open space for collaboration and feedback from industrial panels on the projects. URC is also organized to appreciate students' effort in producing quality final year projects. Furthermore, this program hopes to inspire students in expanding their research activities to postgraduate level. URC is expected to help students in generic skills improvement, i.e., communication and scholarship skills.

The organization of URC is also to attract the linkage between UTM and the industrial sector in research and student recruitment for the workforce.

FOREWORD FROM THE CONFERENCE CHAIR



Assalamualaikum w.b.t and greetings to all,

We would like to welcome you to the 2023 Undergraduate Research Conference (URC2023) which is held on 25th June 2023. This conference is held annually since 2018 and it offers an exciting platform for final year students to showcase their completed research as part of their undergraduate coursework. URC 2023 provides an excellent platform for these young researchers to demonstrate their communication skills, enhance their work readiness, meet students from other disciplines. learn how other disciplines approach research and learn problems. Additionally, URC2023 will be the programme for the students to share their thoughts and exchange ideas on how to chart their journey forward to reach new heights.

Furthermore, URC2023 provides undergraduate researchers a unique opportunity to present their research and enjoy a research conference environment. To that end, I would like to thank the organizing committee for their invaluable support in organizing the conference. Also, the technical support team, our keynote speaker, judging panels, the authors, and presenters for participating and making URC2023 a great venue for final year students to showcase their research. Stay safe and healthy.

Assoc. Prof. Dr. Mazura binti Jusoh Chair Undergraduate Research Conference (URC 2023)

FOREWORD FROM THE DEPUTY VICE CHANCELLOR (ACADEMICS & INTERNATIONAL) UNIVERSITI TEKNOLOGI MALAYSIA

Assalamualaikum w.b.t and greetings to all,

I am pleased when I hear that URC2023 has received overwhelming responses from amongst UTM final year undergraduate students from multidisciplinary research fields. It shows that many more innovations and ideas are being materialized which tells us that our students are striving and doing their best in undergraduate research. URC creates an opportunity for the participants to expose themselves to the recent research development, network and meet colleagues.

In general, this event provided a good opportunity to meet others and exchange ideas. The success of past URC is a testimony of the dedication of UTM educators in bringing



high quality education to our future generations. I am truly impressed with the great enthusiasm shown by the participants of URC2023 in putting their very best effort to demonstrate their research. I hope by showcasing their research and innovations in URC2023, all the participants can learn, relearn, and continue to innovate.

My utmost gratitude to the URC 2023 organizing committee from various faculties and schools, as well as Institute of Life-Ready Graduate (UTM iLeague) for their tremendous contribution and dedication to make this conference successful. I wish all the participants the very best of luck for your presentations.

Prof. Sr. Dr. Hishamuddin Bin Mohd Ali

Deputy Vice Chancellor (Academics & International)

Universiti Teknologi Malaysia

URC 2023 KEYNOTE SPEECH



PASSION FOR KNOWLEDGE, HUNGER FOR DISCOVERY, GUIDED BY VALUES

Research is important in prospering the society. In our term a society that prospers is reflected in their quality of life, sustaining the resources and the environment while progressing and creating equal opportunity for everyone to live in harmony within the global community. With knowledge that you possess in Engineering, Technology, Sciences, Management and etc, research would allow us to explore and discover new knowledge, hence new inventions that would result in better quality of life. Research needs creativity, passion to explore, ability to innovate, and having entrepreneurial mind set. Research must be guided by values and purpose; thus it will lead to a

positive outcomes. The new discovery should not in any way destroy the humanity and the ability for future generations to survive, thus values are very critical for researchers to embrace.

Biography:

Wahid Omar was the 6th Vice-Chancellor of Universiti Teknologi Malaysia (UTM), from September 2013 until August 2020. He retired as a Professor from UTM in May 2022, but continues to serve UTM until now, under the Voluntary Scheme working mainly on Leadership Development. He was entrusted as Head of Department and Deputy Dean in the Faculty of Civil Engineering between 1999-2008. He was the Director of the Office of Asset and Development from 2008 to 2011. During that period, besides managing assets and facilities of UTM, he led (as Superintendent Officer) in the completion of RM1 billion development projects in UTM and led in the planning and completion of RM180 millions UTM Residensi Project in UTMKL. He was appointed as the Deputy Vice-Chancellor (Development) in 2011 before becoming the Vice Chancellor in 2013. Altogether he had accumulated 21 years of management and leadership experience. Currently he serves as a Board Member of Universiti Sultan Azlan Shah, Perak (USAS), Board Member of UTMSPACE; Chairman Board of Trustee, Hidayah Education Centre (Johor); and member of Advisory Council, UTM Azman Hashim International Business School (AHIBS). Wahid is a Fellow of the Institution of Engineers Malaysia (FIEM), a Registered Professional Engineer with the Board of Engineers Malaysia, a certified ASEAN Chartered Professional Engineer (ACPE), an Honorary Member of the ASEAN Federation of Engineering Organization (AFEO) and a Certified Professional Coach under International Association of Coaching (IAC).

Prof. Datuk Ir. Dr. Wahid Bin Omar Professor Universiti Teknologi Malaysia

URC 2023 PROGRAMME SCHEDULE	
08:00 AM – 08:30 AM	Registration of URC 2023 Participants and Judging Panel
08:30 AM - 09:00 AM	Briefing Session for Industrial and Academic Panels
09:15 AM – 9:45 AM	URC 2023 Officiation Ceremony
9:50 AM – 10:20 AM	Keynote Speech
10:20 AM – 10:30 AM	Break
10:30 AM – 1:00 PM	URC 2023 Poster Presentation and Evaluation
1:00 PM – 2:30 PM	Lunch Break
2:30 PM – 3:00 PM	URC 2023 Award Ceremony
3:00 PM – 3:15 PM	URC 2023 Closing Remark

URC 2023 VENUE AND INFORMATION



URC 2023 JUDGING PANELS

PANEL FABU-1

Industrial Panels

Ar. Norazlina Jubari *Architect, JKR Johor*

Academic Panels

Ar. IDr. Ts. Noraslinda Abdul Rahman En Azari Mat Yasir Faculty of Built Environment and Surveying

PANEL FABU-2

Industrial Panels

Asst. Prof. Dr. Masitah Zulkepli Senior lecturer, Southern University College

Academic Panels

Dr. Hariati Abdullah Hasim Dr. Siti Zaleha Daud

Faculty of Built Environment and Surveying

PANEL FABU-3

Industrial Panels

Prof. Dr. Ahmad Ariffian Bujang *Professor, Southern University College*

Academic Panels

Dr. Nur Berahim

Dr. Nurul Syakima Mohd Yusoff

Faculty of Built Environment and Surveying

PANEL FABU-4

Industrial Panels

Sr. Ezam Ariffin

Vice President, PEJUTA

Academic Panels

Dr Nurul Izzati Abd Karim

Dr Kelvin Tang

Faculty of Built Environment and Surveying

PANEL FABU-5

Industrial panel

Sr. Mohd Farid Omar

Surveyor, Royal Institution of Surveyors Malaysia, Johor

Academic Panels

Assoc. Prof. Dr. Nur Emma Mustaffa Dr. Nur Hajarul Falahi Binti Abdul Halim Faculty of Built Environment and Surveying

PANEL FC-1

Industrial Panels	Murniyanti Malik Technical Manager, Infusion Information Technology Sdn Bhd
Academic Panels	Dr Muhammad Aliif bin Ahmad Dr. Ahmad Najmi bin Amerhaider Nuar Faculty of Computing

PANEL FC-2

Industrial Panels	Vincent Kok Chin Keong Microsoft Technical Trainer, Microsoft Singapore
Academic Panels	Dr. Jamilah Mahmood Dr. Nurfazrina Mohd Zamry Faculty of Computing

PANEL FC-3

Industrial Panels Industrial Panels Microsoft Technical Trainer, Microsoft Singapore Murniyanti Malik Technical Manager, Infusion Information Technology Sdn Bhd	
Academic Panels	Dr. Izyan Izzati Binti Kamsani Dr. Tarmizi Adam Faculty of Computing

PANEL FKA-1

Industrial Panels	Heng Peng Siang Executive Director, Dataran Tenaga (M) Sdn. Bhd.
Academic Panels	Ts. Dr. Ng Chiew Teng Dr. Ahmad Azim Shukri Faculty of Civil Engineering

NEL	

Industrial Panels

Mr. Muhammad Najib Abdullah

Technical Lead, Techcare Innovation Sdn. Bhd.

Academic Panels

Ts. Dr. Mohd Riduan Mohamad Faculty of Electrical Engineering

PANEL FKE-2

Industrial Panels

Dr. Muhammad Asraf Mansor *Director, MOM Solutions Sdn. Bhd.*

Academic Panels

Ts. Dr. Mohd Riduan Mohamad Faculty of Electrical Engineering

PANEL FKE-3

Industrial Panels

Dr. Aizat Azmi & Dr. Nazirah Othman *R&D Engineer, TDK Electronic (Malaysia)*

Academic Panels

Dr. Hasmat Malik

Faculty of Electrical Engineering

PANEL FKE-4

Industrial Panels

Mr. Muhammad Syarafi Engineer, GPV Malaysia

Academic Panels

Dr. Nurizzati Mohd DaudFaculty of Electrical Engineering

PANEL FKE-5

Industrial Panels

Ts. Dr. Tan Jia Hou, CEng

R&D Engineer

Academic Panels

Ir. Ts. Dr. Asnida Abdul Wahab Faculty of Electrical Engineering

NFL	. FKF-	

Industrial Panels

Mr. Muhammad Sofwan Zamri Manager, DF Automation

Academic Panels

Assoc. Prof. Ts. Dr. Norzanah Rosmin Faculty of Electrical Engineering

PANEL FKM-1

Industrial Panels

Ir. Azalea Shezdiana Badrulshah *Senior Design Engineer, Dyson*

Academic Panels

Dr. Mohd Haziq Dzulkifli Dr. Muhammad Noor Afiq Witri Muhammad

PANEL FKM-2

Industrial Panels

Wan Mohd Hakimi Wan Harun *Manager, Factory Innovation Unit*

Faculty of Mechanical Engineering

Academic Panels

Dr. Abdillah Sani Mohd Najib Faculty of Mechanical Engineering Ir. Ts. Abdu Aziz Mohd Yusof Faculty of Mechanical UITM

PANEL FKM-3

Industrial Panels

Ts. Mohamad Azmi Ariffin Senior Claims Manager, Dyson

Academic Panels

Wan Fahmin Faiz Wan Ali Nor Akmal Fadil Faculty of Mechanical Engineering

PANEL	FS-1

Industrial Panels

Sharifah Azni Syed Nizar

Senior Supplier Quality Engineer

Academic Panels

Dr. Ahmad Fadillah Embong

Dr. Taufig Khairi Ahmad Khairuddin

Faculty of Science

PANEL FS-2

Industrial Panels

Junaidi Sarju

Maintenance Executive, Hersheys (M) Sdn. Bhd.

Academic Panels

Dr. Nurliyana Ahmad Zawawi

Dr. Rohul Havat Adnan

Faculty of Science

PANEL FS-3

Industrial Panels

Nurul Fatin Alia Mustapha

Production Engineer, Swan Metal Products Sdn. Bhd.

Academic Panels

Dr. Faizani Mohd Noor

Ts. Dr. Razif Razali

Faculty of Science

PANEL FSSH-1

Industrial Panels

Ts. Dr. Norisham A.Rahim

Kolej Vokasional Kota Tinggi

Academic Panels

Assoc. Prof. Dr. Mohd Safarin Nordin

Dr. Mohamad Abdillah Royo

Faculty of Social Sciences and Humanities

PANEL FSSH-2

Industrial Panels

Dr. Jessica Abisheganathan A/P Jeevaratnam

Ministry of Education

Academic Panels

Dr. Kew Si Na

Dr. Faraha Hamidi

Faculty of Social Sciences and Humanities

PANEL FSSH-3

Industrial Panels

Haiah Ida Amiza Hamid

Sektor Sumber Teknologi Pendidikan, Jabatan Pendidikan Negeri Johor

Academic Panels

Dr. Lee Huan Yik Dr. Noor Mala Ibrahim

Faculty of Social Sciences and Humanities

PANEL FSSH-4

Industrial Panels

Mohd Zharif Safwan Zakaria

Pejabat Pendidikan Daerah Kulai

Academic Panels

Assoc. Prof. Dr Halijah Ibrahim

Dr. Lee Shih Hui

Faculty of Social Sciences and Humanities

PANEL MJ-1

Industrial Panels

Noorfazlida Mohamed

R&D Chemist, Samurai 2K Aerosol Sdn. Bhd.

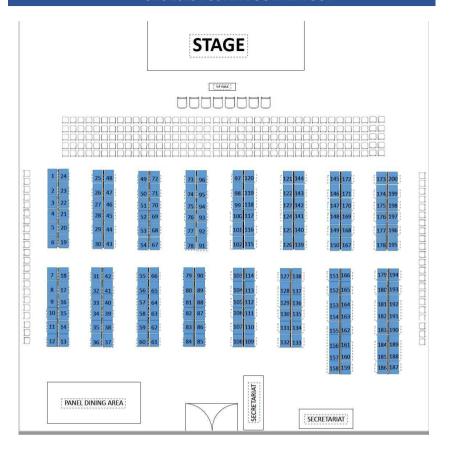
Academic Panels

Dr. Amnani Shamjuddin

Dr. Mohd Dinie Muhaimin Samsudin

Faculty of Chemical and Energy Engineering

URC 2023 POSTER BOOTH LAYOUT



POSTER PRESENTATIONS

	FACULTY OF CIVIL ENGINEERING
FKA-1-1	LIM QIAN XI Title: Flexural Behavior of Glued- Laminated Timber with Square Openings
	The Treation behavior of Glace Editinated Timber with Square Openings
FKA-1-4	SYAFIQ AIMAN BIN HASMANDI
	Title: The Effect of Impact Location on Modal Testing
FKA-1-5	ALAN WONG ZONG XIANG
LVA-1-2	Title: Vibration-Based Damage Detection for One-Story Frame Structure Using
	Mode Shape Curvature
	·
FKA-1-6	RUHAN PERIYANNAN
	Title: Physical and Mechanical Properties of Concrete Made with Partial
	Replacement of Medical Waste Fly Ash
FKA-1-7	RAJA SAAD MUZAFFAR SHAH
	Title: Performance of Concrete Containing Fibres from Badminton Shuttlecock
FKA-1-8	MUHAMMAD ANAS BAIHAQI BIN MOHD RASOLL
	Title: Laterite Soil Improvement for Preventing Leachate in the Landfill
FKA-1-9	MUHAMMAD ZHAFIAN BIN MAMAT JAILANI
	Title: Laterite Soil as Ground Improvement for Bottom Liner to Prevent Leachate
	from Infiltrating the Landfill
FKA-1-10	NUR SUHAILA BINTI ISMAIL
	Title: Durability of Lime-Stabilised Laterite for Landfill Liner
FKA-1-11	SITI NURSYAMIRA BINTI SALLEH
	Title: Ground Improvement to Prevent Leachate in Sanitary Landfills

	FACULTY OF MECHANICAL ENGINEERING
FKM-1-1	ROOHAN PANNEER SELVAM
	Title: Comparative study of turbulence models for predicting flow over a circular cylinder from subcritical to supercritical regimes
FKM-1-2	HAARIHARAN AMPALAGAN
	Title: Design and Development of Controllable Shaft Alignment Device
FKM-1-3	ESLAM TAREK SAFWAT SAYED ABDALLA Title: Development of Quadruped Robot for Forest Mapping
FKM-1-4	MUHAMMAD SYAZWAN HAKIMI BIN RUZAIMI Title: Design and Development of Autonomous Monitoring System for Electric
	Autonomous Vehicle (EAV) For FTENTH RACE TYPE-R

FKM-1-5	MUHAMMAD AFIQ BIN ROHAIZAM Title: Design and Development of Smart Lobster Breeding System (SLABS V3)
FKM-1-6	MUHAMMAD AIMAN BIN MUHAMMAD ASYRAF Title: Design and Development of Autonomous Monitoring System for Electric Autonomous Vehicle (EAV) For FTENTH RACE TYPE-S
FKM-1-8	MUHAMMAD SUHAYL AZMIN BIN SAIPOLLIZAN Title: The Development of Image Captioning Algorithm
FKM-1-9	LIM XINLIN Title: CFD Simulation of Seawater Desalination by Using Direct Contact Membrane Distillation
FKM-2-1	MUHAMMAD FAIZ BIN ABD GHAFFAR Title: Carbon Nanotubes Growth Distribution Analysis Within Methane Diffusion Flame Using Pure Nickel Wire
FKM-2-2	TING CHEK YU Title: Pipeline Leakage Detection Using Arduino Sensor
FKM-2-3	AHMED ARIEF BIN YUSOF Title: Combustion Chamber Simulation Analysis for Micro Gas Turbine Performance
FKM-2-4	MUHAMMAD THAQIF BIN NASARUDIN Title: Analysis of Thermal Effects of Methane Diffusion Flame on Carbon Nanotubes Growth Region Distribution in Methane Diffusion Flame
FKM-2-5	YEW QI MING Title: Development of AUV with Al Vision
FKM-2-6	MUHAMMAD FATHURIZQULLAH Title: Environmental Buoy for River Water Assessment
FKM-2-7	GOH JIE HENG Title: Improving Pitching Motion of Oscillating Wave Surge Convertor Using Magneto-Rheological Damper
FKM-2-8	KEW SIANG WEN Title: Analysis of Floating Wind Turbines Arrangement Effect on Power Generation
FKM-2-9	NG CHEN XIAN Title: Design of Control Algorithm for Autonomous Near Surface Vehicle
FKM-3-1	HAFIZ DIKA JIWANTA Title: Work Study on The Production in An Electronics Manufacturing Company
FKM-3-2	MUHAMMAD DANIAL ALIF BIN ARZE Title: Systematic Layout Planning in Aluminium Fabrication Workshop

FKM-3-3	MUHAMMAD NIZAM BIN ADNAN
	Title: Case Study for Engineering Design of Noise in an Electronic Manufacturing
	Company
FKM-3-4	ONG SIN CHEE
	Title: Ergonomics Improvement in A Machine Vision System Company
FKM-3-5	CONI TAN CO NI
	Title: A Case Study on Topology Optimization of Ball Valve Components Design for
	Additive Manufacturing in Oil and Gas Industry
FKM-3-6	CHIN CAI YING
	Title: Effect of Minimum Quantity Lubrication on Surface Quality and Tool Life in
	End Milling of Stainless Steel AISI 420
FKM-3-7	CHIN YEE JIAN
	Title: Online Tool Monitoring System for End Milling of Stainless Steel AISI 420
FKM-3-8	A'FAF A'QILAH BINTI ISMAIL
	Title: Unsupervised Machine Learning of Acoustic Emission Waves in Damaged
FKM-3-9	JEREMY ONG JUN SHENG
	Title: Biofuel as a Sustainable Fuel for Aviation

	FACULTY OF ELECTRICAL ENGINEERING
FKE-1-1	NURSHAFIZA BINTI KAMARUDDIN Title: Development of Home-Based Rehabilitation Mobile Apps for Autism Spectrum Disorder Children
FKE-1-2	QISTINA BALQIS BINTI ZAIDI Title: Automatic Assessment of Specific Balancing Movement in Autism Spectrum Disorder by Using Pose Detection Method
FKE-1-3	KEVIN NG ZHI HAO Title: Intelligent Heart Rhythm Monitoring System Prototyping on Efinix Field Programmable Gate Array (FPGA) Technology Platform
FKE-1-4	AISYAH BINTI SAFI'AI Title: Three Dimensional Printed Invisible Dental Braces for Treating Misaligned Teeth
FKE-1-5	MUHAMMAD FARHANKA THARIQ Title: Fabrication and Characterisation Analyses on Electrospun Membrane of Polyvinyl Alcohol/Chlorhexidine
FKE-1-6	NOOR ATIRAH BINTI MOHD NOH Title: Synthesis And Physiochemical of PVA/Gelatin Based Hydrogel with Andrographolide For Biomedical Application

FKE-1-7	FAISHAL ADILAH SURYANATA Title: RFID Read Range Performance: Investigating the Impact of The Human Tissue Layer
FKE-2-1	YANG JIANYU Title: Wireless Charger for Small Power Applications using Magnetic Inductive Coupling
FKW-2-2	FADHILLAH RAHMAT KHAIRANI Title: Improving Voltage Profile in Distribution System Considering Massive Electric Vehicle Charging Station Installation Using Capacitor Bank with Assistance of Particle Swarm Optimization
FKE-2-3	AISYAH BINTI MOHD AKRAM Title: Smart Pipeline Inspection Robot (SPIR)
FKE-2-4	IRFAN HANAFI BIN SOHAIMI Title: The Role of Silicon Oil on AC Breakdown Strength of Aged Nano composited
FKE-2-5	AMIRUL ASHRAF BIN KAMIL Title: Analysis of Power Factor Correction for Induction Motors Using Power Factor Correction Devices
FKE-3-1	NUR IZZATI BINTI ASLAN Title: Voltage Stability Enhancement based on Voltage Stability Indices Using FACTS Controllers
FKE-3-2	MASLAH GURE ABDIKARIM Title: The Design of Single-Phase Energy Power Meter Using an Arduino Microcontroller
FKE-3-3	FATEHAH BINTI BURHANNUDIN Title: Soil Ionisation Effects on Transmission Line Tower Grounding Performance
FKE-3-4	WAN AKMAL NAZIRAH BINTI WAN UBAIDILLAH Title: Anomaly Detection on DC Motor Using Embedded Artificial Intelligence
FKE-3-5	FAISAL KHALED ABDULLAH ALWAZER Title: Intelligent Model Development for Solar Irradiance (SR) Prediction/Forecasting
FKE-4-1	ABDULRAHMAN A LUDEEN Title: Autonomous Cleaning Robot
FKE-4-2	IVYN TAN SHI HAN Title: Heart Rate Detection Using Pan Tompkins Algorithm Implemented on Efinix FPGA

FKE-4-3	NUR FATINI BINTI MOHAMMAD NAZRI Title: Study of Radius Variation of Photonic Microring Resonators in Wavelength Division Multiplexing
FKE-4-4	AHMAD ZIDAN FIRMANSYAH Title: Vehicle-To-Vehicle and Vehicle-To-Roadside Cooperation Video Alert Dissemination in the Highway Environment
FKE-4-5	SITI YUSAIRAH BINTI MOHD ZAINOL Title: Design of Filtering Microstrip Antenna Using Filter Synthesis Approach
FKE-4-6	JOYCE LIM XIN YEE Title: 6 Minute Walk Test Monitoring System with Vital Signs Measurements using Mobile Phone and Cloud Technology for Home Rehabilitation
FKE-5-1	ANSON HOH SIEW SANG Title: Performance Evaluation of High Bandwidth Availability Network for Drone Communication
FKE-5-2	NORDURRATUL HIKMAH BINTI MUSTAFFA Title: Crowd Detection and Tracking System
FKE-5-3	RIFKY PRAMUDITA MAHENDRA Title: Eyeball Segmentation and Measurement in Magnetic Resonance Imaging Images of Myopic Children Using Image Processing in MATLAB
FKE-5-4	IZNI MAISARAH BINTI MOHAMMAD NIZAR Title: Drone-Assisted Hotspot for Emergency Communications
FKE-5-5	YUKI WONG Title: Brain Tumor Classification from MRI Images Using Deep Learning
FKE-5-6	YVONNNE WONG LIANG Title: Register Transfer Level Design of Floating Point Artificial Neural Network Node for Arrhythmia Classifer
FKE-6-1	CHUA SHU EN Title: Investigation of Effects of Path Planning Algorithms on Mobile Robot's Performance
FKE-6-2	YEAP SHIN CHIN Title: Low-Cost Carpet Drying Spinner with Control and Monitoring
FKE-6-3	NUR ADRIANA SHAZLEEN BINTI MOHD NIZAM Title: Valve Control Using Magnetic Precipitate Detection in Magnetic Water Filter System
FKE-6-4	OMAR ABDULLAH Title: Human Movement Tracking System in Construction Sites and Crowded Places

FKE-6-5	NAIF FAHD ABBAS AHMED Title: Real-Time Concrete Crack Detection and Segmentation Using Convolutional Neural Network
FKE-6-6	TOK XUE WEN Title: Input Shaping and Fuzzy Logic Control of an Overhead Crane
FKE-6-7	JEREMY SIA YIK XIAN Title: Robot Manipulator for Petrol Fuelling

	FACULTY OF COMPUTING
FC-1-1	NUR IZZAH IZZATI BINTI MOHD YUSOF Title: Implementation of Adaptive Synthetic Sampling Approach in Classification of Protease Substrate Cleavage Site
FC-1-2	LEE BAO YI Title: Alzheimer's Disease Genes and Pathways Identification Using Signalling Pathway Impact Analysis
FC-1-3	CHEE WAI LUM Title: Identifying Potential Antimicrobial Resistant DNA in Neisseria Gonorrhoeae Using Support Vector Machine - Recursive Feature Elimination (SVM-RFE)
FC-1-4	THONG NYOOK ANN Title: Improved K-Nearest Neighbours with Recursive Feature Elimination with Cross-Validation on Breast Cancer Classification
FC-1-5	LIM WEI HSIEN Title: Classification of Microarray-Based Lung Cancer Using K-Means Clustering with Black Widow Optimization and Random Forest
FC-1-6	ARINA ZAFIRA BINTI AMRAN Title: Classification of Acne Vulgaris and Rosacea using Convolutional Neural Network (CNN)
FC-1-7	NURUL LIYANA BINTI MOHD YUSOF Title: Development of Question-Answer System of Post-Covid Syndrome Using Rule-Based Classifier
FC-1-8	MUHAMMAD NABIEL IZZUDDIN BIN RADZUAN Title: Prediction on Thalassemia Carrier Using Feature Selection on Machine Learning
FC-2-1	RAFAH RAGHEB OMAR AL-QIRSHI Title: Gold Price Prediction Using Support Vector Regression, Artificial Neural Network, and ARIMA

FC-2-2	MOHAMMED RAGAB ELSINOUSI ABDALHADY Title: Recognition of Distortive Fingerprints for Criminal Investigation
FC-2-3	AL-BARAA YAHYA ABDULLAH HNSHAL Title: Gender Recognition by Voice Using SVM
FC-2-4	MAIDUL HASAN MASUM Title: Underwriting in the Age of Insurtech: A Comparative Study of Algorithms and Their Efficacy
FC-2-5	ALUGE ELINOR OSEI-AMAKA Title: Revolutionizing Food Sustainability: The Save Excess Food Application for Curbing Wastage and Nourishing Communities in Malaysia
FC-2-6	DHIO RIDHOLA PRIANTAMA Title: Sentiment Analysis on Indonesian Twitter Users Perspective Towards Russia Invasion of Ukraine
FC-2-7	OMAR KHALED ALATTAS Title: Detecting Malicious Applications in Mobile Cloud Computing
FC-2-8	NICHOLAS PANG JIA CHERN Title: Comparative Study on Image Encryption Algorithm
FC-2-9	AHMAD FARIS AIMAN BIN ARIZAL Title: Performance Comparative Study on Zero Day Malware Detection Using XGBoost and Random Forest Classifiers
FC-3-1	CHONG LI LING Title: Multi-user Interaction for Living Room Furniture Layout Design in Handheld Augmented Reality
FC-3-2	CLIVE LAI YI CHENG Title: Interactive Augmented Reality Mobile Educational Game on History of James Brooke in Sarawak
FC-3-3	LEE HUI ZHONG Title: Augmented Reality Clothing Try-on Application
FC-3-4	NURSYAFIQAH BINTI ABDUL HALIM Title: Augmented Reality Apps for Preschool Children to Learn Syllables in Bahasa Melayu
FC-3-5	SITI FATIMAH AZ ZAHRA BINTI MOHD NIZAM Title: Smart Contract: E-Voting Blockchain Based System
FC-3-6	SIMON CHONG KAI YUEN Title: Real-time Smart Driver Sleepiness Detector Using Computer Vision

ONG YIN REN FC-3-7

Title: A Comparative Analysis of Convolutional Neural Network Training Algorithms for Image Recognition

	FACULTY OF SCIENCE
FS-1-1	AHMAD FARHAN BIN ROOH AZZAM Title: The Maximum Degree Energy of the Cayley Graph Associated to the Alternating Group of Order 12 with Subsets of Order One
FS-1-2	GOH CHAI YING Title: Determination of Hamiltonian Polygonal Paths of Assembly Graph for FTTM_6 Using Ω -Algebra
FS-1-3	KONG TZI JING Title: Analysis of Casson Hybrid Nanofluid of Unsteady Squeezing Flow in a Porous Medium Between Two Parallel Plates Under Variable Magnetic Field
FS-1-4	MAZ ANNIS SYAHIRA BINTI ZAINUDIN Title: Modelling of the Spread of Dengue Disease Using SIR Model
FS-1-5	NIK ABDUL HADI BIN NOOR NASRAN Title: The Laplacian Energy of Conjugacy Class Graph Associated to Some Dihedral Groups
FS-1-6	NOORSALWANISAH BINTI ZAINAL Title: Modelling the spread of COVID-19 in Malaysia using SEIR Model
FS-1-7	NUR FAIZAH BINTI ISHAM Title: Effects of Heat Generation and Thermal Radiation on Thermophoretic Mixed Convection Flow over A Spherei
FS-1-8	NUR YASMYN BINTI ZULKIFLI Title: Prime Power Noncoprime Graph of Nonabelian Metabelian Groups of Order at Most 24
FS-1-9	PA WEI JIN Title: Determination of Hamiltonian Polygonal Paths in Assembly Graph of FTTM_7 Using Ω -algebra
FS-1-10	SITI NUR NADHIRAH BINTI YAHAYA Title: SEIR Model of Hand Foot Mouth Disease (HFMD)
FS-2-1	REASWINA A/P KUSRAJU Title: Analysis of Unsteady Dual Convective Transportation of Bi-Component Species in Casson Blood Flow of Stenosed Arteries

FS-2-2	KAM CHUI FONG Title: Evaluating the Presence of Lead, Cadmium and Mercury in Lipsticks from Malaysian Market and their Impact on Health
FS-2-3	CHIA PEI SEE Title: Isolation and Characterization of Bacteria from Coastal Seawater
FS-2-4	ENG JIA JIA Title: Neoteric Green Dissolution Solvent of $\alpha\text{-Tocopherols}$ for Pharmaceutical Application
FS-2-5	NOOR LAILA AMEERA BINTI MEOR YAZID Title: Anti-cariogenic Activities of Kappaphycus Alvarezii Crude Extract Against Streptococcus Mutans
FS-2-6	TOH SHEK MAN Title: Antiproliferative and Apoptosis-Inducing Response of Curcumin and Trail Combination Treatment on Breast Cancer Cells
FS-2-7	JULIA AMEERA BINTI JOHARI Title: Isotopic and Nonisotopic Syntrophic Methane Production Using Acclimatized Pome Sludge as Inocula
FS-3-1	NASHMITTA PILLAI A/P VASUDEVAN PILLAI Title: Surface-Enhanced Raman Scattering Substrate Based on Bimetallic Nanoparticles Embedded Reduced Graphene Oxide for Beta-D-Glucose Detection
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CLOSING REMARK



Assalamualaikum w.b.t and greetings to all,

I am honoured and delighted to deliver the closing remark at the end of Undergraduate Research Conference 2023 today. First of all, I would like to thank the Undergraduate Research Conference 2023 team and committees for their enthusiastic and dedicated work while I see that they put their heart and soul to make this event happen.

I am extremely pleased that the Undergraduate Research Conference 2023 was well attended by students from various disciplinary fields in UTM. I believed the participants benefited from panels that

were filled with insightful contents and comments.

On behalf of the Undergraduate Research Conference 2023 committee, I would like to thank all the participants, panels from UTM, panels from industry and the speaker for your support. Your presence has been invaluable and without any doubt, has helped make the event a great success.

Since the Undergraduate Research Conference is an annual event, we look forward to seeing you again next year in 2024. Stay safe and healthy everyone.

Prof. Ts. Dr. Intan Zaurah Binti Mat Darus Director of Centre for Academic and Experiential Learning (CAEL) Universiti Teknologi Malaysia

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TNC (Academic & International), Institute of Life-Ready Graduate (UTM iLeague), Universiti Teknologi Malaysia,

All industrial and academics panels.



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