

# FKEE INNOVATION DAY

FACULTY OF ELECTRICAL AND  
ELECTRONIC ENGINEERING

13 JAN  
2026

## 3 MINUTES THESIS (3MT)

Semester 1 Session 2025/2026

## Program Book





## ABOUT 3MT 2026

### 3 Minutes Thesis (3MT) Competition 2026 (3MT 2026)

FKEE Innovation Day 2026 serves as a platform to showcase innovative research, technological advancements, and creative solutions developed by students and researchers of the Faculty of Electrical and Electronic Engineering. The integration of the 3MT Competition into this event highlights the importance of not only producing high-quality research, but also effectively communicating its impact.

The 3-Minute Thesis (3MT) competition is an international academic challenge that encourages postgraduate research students to effectively communicate the significance of their research to a non-specialist audience. Participants are required to present their research in just three minutes, using a single static slide, with the objective of demonstrating clarity, conciseness, and impact. Through this competition, postgraduate students from the Faculty of Electrical and Electronic Engineering (FKEE), UTHM develop essential research communication skills that are vital for academic, professional, and public engagement.

The objectives of the 3MT Competition are to:

- Enhance postgraduate students' academic, presentation, and research communication skills.
- Promote research visibility and awareness within FKEE and the wider community.
- Encourage researchers to articulate complex ideas in a clear and engaging manner.
- Foster a culture of innovation, creativity, and interdisciplinary research communication.

## PROGRAMME SCHEDULE

**Tuesday, 13<sup>th</sup> January 2026**

**Venue: Bilik Tutorial 1 & 2, Level 1, Block QB**

TIME	TENTATIVE	Venue
08:30 am	Registration and Breakfast	BK 2
09:00 am	Briefing session for the panel of judges	BK 1
09:15 am	Briefing session for 3MT Participants	BK 1
09:30 am	3MT Competition	BK 1
11.30 am	Judging score calculation	BK 1
12.00 pm	Break	
02:30 pm	3 Minutes Thesis (3MT) Competition Prize Presentation Ceremony	Block QB (Foyer)
04:30 pm	End of Ceremony	

## LIST OF PARTICIPANTS

No.	Name of Participant	Matric No.	Title of Presentation
1	Natasya Salsabiila	HE240014	Fabricating Uniform Aluminum Nitride Layers Using Industrial-Grade Sputtering Machine
2	Dannial Asyraf Bin Shahrul Anuar	HE240041	Segmenting Kidney B-Mode Image Towards Improving Accuracy Measurement of Detection Using Bbrm
3	Mohd Hazlan Bin Zakaria	GE210014	Authenticity Assessment of Malaysian Honey Using Absorbance - Transmittance Analysis and Artificial Neural Network - Optical Properties (Ann-Op) Classification
4	Shazleen Binti Ahmad Ramli	GE230032	From Sunlight to Clean Water
5	Fareesa Khan	GE240018	Advancing Computational Neurodiagnostics with Interpretable Artificial Intelligence (Ai) For Early Alzheimer's Detection
6	Nadiah Binti Kamaruzaman	GE240025	Data Augmentation Atlas Vertebrae C1 For Convolutional Neural Networks Based Automation Classification of Human Identification on Malaysian Population
7	Muhamad Amir Irfan Bin Roslan	HE240038	Development Of Non-Destructive Based Optical and Machine Learning Method for Mango Ripeness Classification
8	Nurfaraliyana Binti Samburi	GE240035	Voltage Stability Assessment for Predicting Blackout Risks Using VCPI
9	Roshada Binti Ismail	GE230015	Modular Outer Rotor PMFSM
10	Nur'afifah Binti Yousri	HE240028	Hemodynamic Factor Occur During Systole Phase at Aortic Valve Stenosis
11	Abdullahi Bukar	GE240010	Auxiliary Energy Management for Ship Hybrid Power System Based on Fuzzy Logic - H Infinity Controller
12	Muhammad Sazlan Bin Abdul Kadar	GE240060	Microstrip Patch Antenna Design for Natural Rubber Contaminants Via Permittivity Sensing
13	Farah Najidah Binti Noorizan	HE230026	Non-Invasive Glucose Prediction Using Machine Learning
14	Salman Ahmed	HE220025	Lightweight Aesha-3 Duplex Crypto Architecture for Medical Iot Applications.
15	Muhammad Akmal Bin Khairuddin	GE250019	Joint Estimation State of Charge and State of Health for Lithium-Ion Batteries Using a Physics-Informed Neural Network
16	Scanly Wong Tze Hau	CE210049	Iot-Based Fuzzy Control System for Smart Nutrient Film Technique (Nft) Hydropon

## PANEL OF JUDGES

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1. Assoc. Prof. Ir. Ts. Dr. Mohd Razali Bin Md Tomari  
**Centre of Electromagnetics (EMC)**
2. Assoc. Prof. Dr. Samsul Haimi Bin Dahlan  
**Koperasi FKEE UTHM Berhad (Koop-ee)**
3. Dr. Ariffuddin Bin Joret  
**Internet of Things Focus Group (FG-IoT)**
4. Assoc. Prof. Ir. Dr. Audrey Huong Kah Ching  
**Department of Postgraduate Studies**

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## AWARDS AND RECOGNITION

<b>Grand Prizes</b>	<ol style="list-style-type: none"><li>1. First Place</li><li>2. Second Place</li><li>3. Third Place</li><li>4. Best Pitcher Award</li></ol>
<b>Special Awards &amp; Sponsors</b>	<ol style="list-style-type: none"><li>1. EMC Best Pitcher Award <b>Centre of Electromagnetics (EMC)</b></li><li>2. <b>Special award for Future Promising Technology</b> <b>Internet of Things Focus Group (FG-IoT)</b></li><li>3. Best Oral Presentation Award <b>Koperasi FKEE UTHM Berhad (Koop-ee)</b></li></ol>

## ORGANIZING COMMITTEE

<b>Patron</b>	Prof. Ts. Dr. Asmarashid bin Ponniran
<b>Advisor I</b>	Prof. Ir. Dr. Erwan Bin Sulaiman (Current)  Assoc. Prof. Ir. Ts. Dr. Mohd Razali Bin Md Tomari (until 31/12/2025)
<b>Advisor II</b>	Assoc. Prof. Dr. Nabihah @ Nornabihah binti Ahmad (Current)  Assoc. Prof. Dr. Wan Mahani Hafizah Binti Wan Mahmud (until 31/12/2025)
<b>General Chair</b>	Dr. Norshidah Binti Katiran
<b>Secretary</b>	Dr. Roshayati Binti Yahya @ Atan
<b>Protocol &amp; Emcee</b>	Dr. Noor Azizi Bin Mardi (Chair)
<b>Promotion</b>	Dr. Nik Shahidah Afifi Binti Md Taujuddin (Chair)
<b>Technical &amp; Logistics (Venue)</b>	Dr. Ariffuddin Bin Joret (Chair)
<b>Technical &amp; Logistics (Equipment)</b>	Assoc. Prof. Ir. Dr. Abd Kadir Bin Mahamad (Chair)
<b>Judging</b>	Assoc. Prof. Dr. Nurmiza Binti Othman (Chair)
<b>Sponsorship</b>	Ts. Sharifah Binti Saon (Chair)
<b>Prize</b>	Mrs. Nur Shahila Binti Salim (Chair)
<b>Certificate</b>	Assoc. Prof. Ir. Dr. Audrey Huong (Chair) Mrs. Nur Farahana Binti Azman
<b>Registration</b>	Dr. Rahmat Bin Talib (Chair)
<b>F&amp;B</b>	Assoc. Prof Ir. Dr. Nabilah Binti Ibrahim (Chair)

ORGANIZER

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