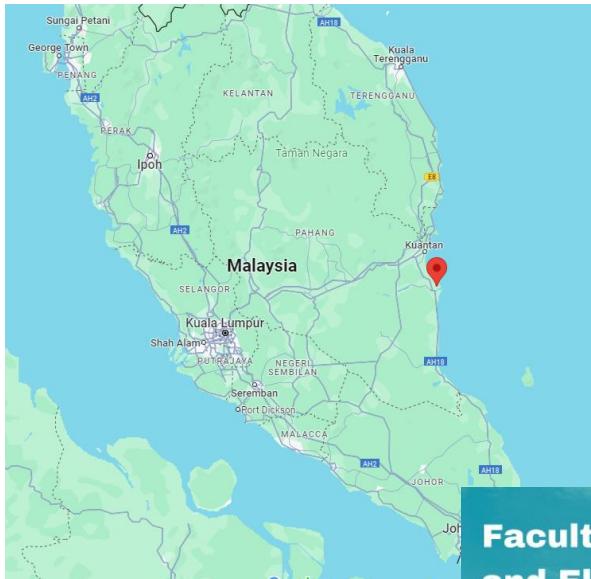


# Advanced Metrology & Sensing (AMES) Group

Founded in 2019

Located in Faculty of Electrical and Electronics Engineering (FTKEE), Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Pekan Campus



**Faculty of Electrical  
and Electronics  
Engineering  
Technology**



# Advanced Metrology & Sensing (AMES) Group

## MEMBERS

**M. Mawardi  
Saari**

(Assoc. Prof., Ph.D.)



**M. Sharfi  
Najib**

(Assoc. Prof., Ph.D.)



**Mohd Razali  
Daud**

(Assoc. Prof., Ph.D.)



**Hadi  
Manap**

(Assoc. Prof., Ph.D.)



**M. Anwar  
Zawawi**

Assoc. Prof., Ph.D.



**A. Johari  
Mohamad**

(Snr. Lecturer, Ph.D.)



**Amir Izzani  
Mohamed**

(Snr. Lecturer, Ph.D.)



**Yasmin  
Abdul Wahab**

(Snr. Lecturer, Ph.D.)



**Nurhafizah  
Abu Talip**

(Snr. Lecturer, Ph.D.)



**Syukran H.  
Norazman**

(Snr. Lecturer, Ph.D.)



**Razali  
Muda**

(Snr. Lecturer, Ph.D.)



# Topic: Magnetic Device & Measurement

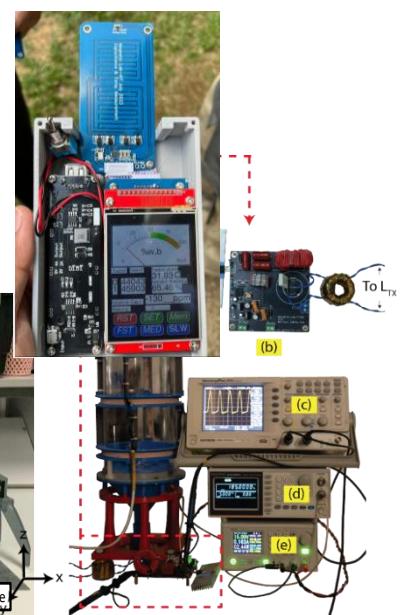
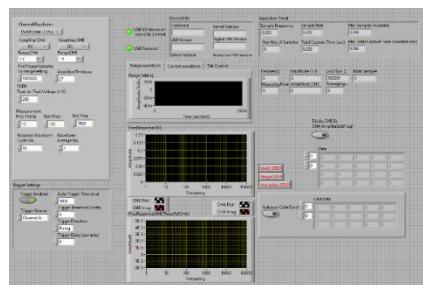
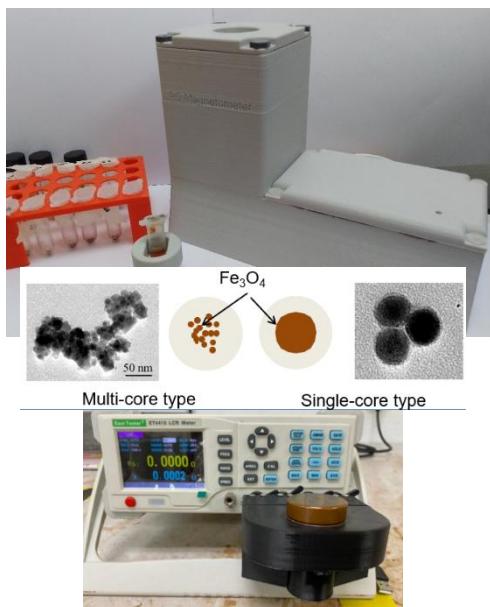
**Mohd Mawardi Saari (Ph.D)**

FTKEE & Centre for Advanced Industrial Technology

[mmawardi@ump.edu.my](mailto:mmawardi@ump.edu.my)

## Research Contents:

- *Magnetic Evaluation Device for Magnetic Nanoparticles*
- *Non-Destructive Test using Electromagnetic Method*
- *Applications related to magnetic instrumentations*



# Topic: Process Tomography, Sensor Technology and Its Application

Ts Dr Yasmin Abdul Wahab

FTKKE & Centre for Advanced Industrial Technology

yasmin@umpsa.edu.my

## Research Contents:

- Modelling and Simulation of Process Tomography
- Sensor Design and Development of Process Tomography
- Sensor Technology and Its Application

### Introduction

#### Tomography

The term "Tomography" came from combination of Greek words

**TOMO** **GRAPH**

↓  
SLICE

↓  
PICTURE

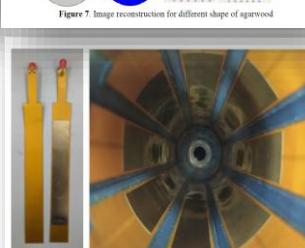
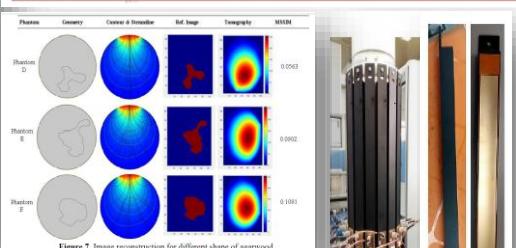
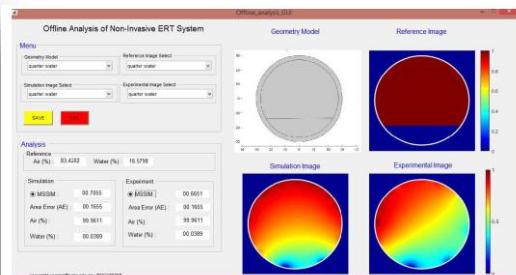
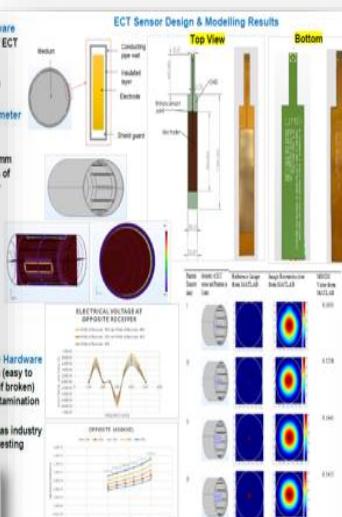
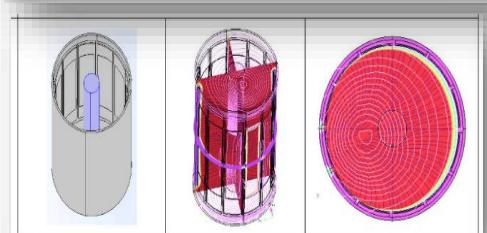
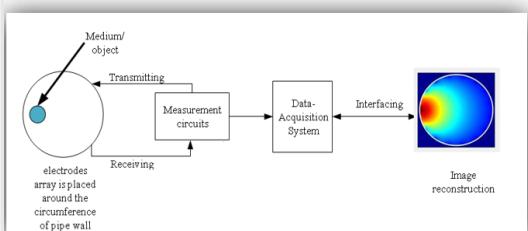


Figure 7. Image reconstruction for different shape of agewrood

# Topic: Odor & NIR-Optical Sensing

Muhammad Sharfi bin Najib (Ph.D)

FTKEE & Centre for Advanced Industrial Technology

sharfi@umpsa.edu.my

## Research Contents:

- *Odor detection system*
- *NIR-Optical Sensing*
- *Unified Odor and NIR-Optical Sensing*



E-ANFUN P1.0

E-ANFUN WM1.0

E-ANFUN



E-BSR



O-BSR