

## NOR KAMILAH SAAT Ph.D. (University of Leeds)

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### EXPERTISE PHOTONICS

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Dr Nor Kamilah Saat is a senior lecturer in Department of Physics, University Putra Malaysia. During her PhD, she studied on photonic technology of terahertz quantum cascade laser (THz QCL) for non-destructive testing in application to security system. This technology majorly used in airport security system. Currently, her research mainly focusses on nondestructive testing (NDT) using photothermal imaging system and study ceramic material of zinc oxide in varistor

### Current Research Interest

- **Non-destructive imaging system.**

To study the ability of the photothermal imaging system to detect defect of surface and subsurface for solid material particularly composite material.

- **Varistor Based zinc oxide material**

This is known that the metal oxide ZnO-based varistors are non-linear ceramic resistors which are largely used to protect the electric and electronic circuits and components against overvoltages. In this case, by controlling the microstructure of the ZnO-based material, will improve the properties of non-linearity of the varistors. This involves modification of ZnO-based microstructure with different dopant material and the process during synthesis of varistor material.

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**LINK TO POSTGRADUATE FIELD OF STUDY:**

**ADDITIONAL INFORMATION:**

