

# DOCTOR OF PHILOSOPHY (APPLIED PHYSICS)



# DOCTOR OF PHILOSOPHY (APPLIED PHYSICS)

The programme enables students to undertake specialised and applied in-depth research work in various branches of applied physics, including but not limited to plasma physics, pulse power technology, and material science. These areas can enhance and contribute to the body of knowledge in science and technology.

## Highlights

- Students will achieve high levels of competency in advanced scientific knowledge and skills in a specialised and advanced field of science and emerging technology.
- Graduates will be able to contribute professionally as experts in the area of science and technology in academic, research institutes, and organisations.
- Leading research in areas of plasma physics and pulse power technology, an emerging field in energy and green technology.
- This programme provides a thorough grounding in the scientific principles governing the physical, chemical, and mechanical properties of solid materials, and the opportunity to specialise in the research of a particular material (superconductors, semiconductors) through a choice of options.

## Research Areas

- Plasma Physics
- Pulse Power Technology
- Condensed Matter Physics
- Superconducting Materials
- Engineering Physics
- Renewable Energy
- Quantum Technology

## Programme Structure

- Research Methodology
- Proposal Defense
- Research Thesis Supervision
- Viva Voce in the final year
- Students are required to produce a thesis for fulfillment of the graduation requirement

## Offered at:

INTI International University  
(R2/545/8/0001)(09/27)(MQA/FA0025)

**INTAKES: JAN, MAY & SEP**

## Duration

Full Time: 3 years  
Part Time: 4 years

## Entry Requirements

- A recognised Master's degree in the relevant field; AND

Meet any of these English language requirements:

- i. A Master's degree conducted in English\*; OR
- ii. Credit 6 in MCE / SPM / GCE level; OR
- iii. MUET Band 4 / TOEFL score of 550 / IELTS score of 6.0; OR
- iv. Equivalent score from any of the above obtained at undergraduate level at a recognised university\*

\* A copy of the document from the university is required during submission as proof of English proficiency

Any other qualification with relevant working experience will be subject to approval by the Senate