

# Our Experts



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# INOR

HIGHER INSTITUTION CENTRE OF EXCELLENCE (HICoE)



## Contact Us

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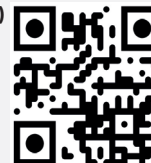
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## ACADEMIC PROGRAM

DOCTOR OF PHILOSOPHY &  
MASTER OF SCIENCE  
IN OPTOELECTRONICS

INSTITUTE OF NANO OPTOELECTRONICS  
RESEARCH AND TECHNOLOGY (INOR)

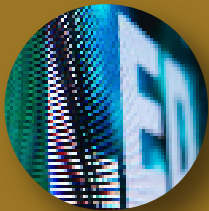
<https://inor.usm.my/>

# INTRODUCTION TO INOR

The Institute of Nano Optoelectronics Research and Technology (INOR) is a Higher Institution Centre of Excellence (HICoE) accredited by the Ministry of Higher Education of Malaysia, pioneering in the niche area of III-Nitrides Epitaxy for Optoelectronics and Advanced Devices. INOR has been intensively optimizing epitaxial growth of III-Nitrides layers since early 2018. Through the current HICoE program, the effort is continued by focusing on improvements of the material quality of the layers with different material compositions and various device designs. This program is divided into five projects: aluminum gallium nitride (AlGaIn) UV LEDs, long-wavelength emission indium gallium nitride/gallium nitride (InGaIn/GaN) LEDs, InGaIn solar cells, GaN-based nanophotonics devices, AlGaIn/GaN high-electron-mobility transistors (HEMTs), and GaN UV detectors.

## NICHE RESEARCH AREAS

LIGHT EMITTING DIODES (LEDs)



POWER DEVICES

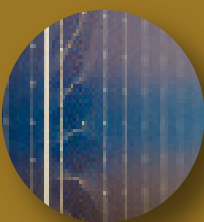


UV

PHOTODETECTORS



SOLAR CELLS



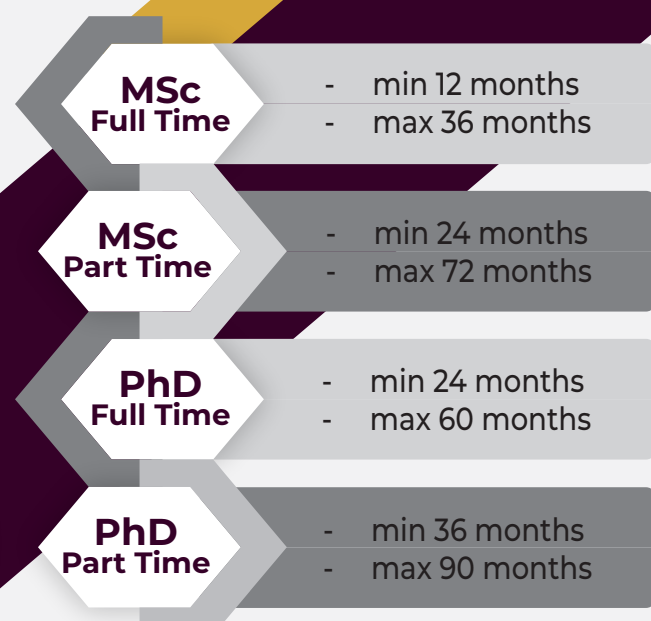
NANOPHOTONIC DEVICES



# RESEARCH FIELD



# PROGRAM DURATIONS



# ADMISSION REQUIREMENTS

## MSc

1. A bachelor's degree in Science or Engineering with CGPA at least 2.75 or equivalent from recognized universities
2. For CGPA 2.50 - 2.74, candidates should have
  - Experience in research environment for at least 1 year OR 2 academic publications (not journal proceeding) or more in the area applied for OR
  - At least Grade B in major/elective courses OR
  - At least Grade B+ in final year project
3. For CGPA 2.00 - 2.49
  - Candidates should have experience in research environment for at least 5 years OR
  - Professional experience in the related field for at least 5 years AND 2 academic publications (not proceeding journal) or more in the area applied for OR
  - At least Grade B+ in major/elective courses OR
  - At least Grade A- in final year project with additional conditions as requested by INOR (if necessary)
3. APEL A Certificate (APEL T-7)
  - For individual with working experience but lack of formal academic qualifications. (<http://www2.mqa.gov.my/APEL/>)

## PhD

1. A Master's degree (by Research Mode) in Science or Engineering from recognized universities. OR
2. A Master's degree (by Coursework/Mixed Mode) with CGPA of at least 3.00 in Science or Engineering from recognized universities. OR
3. Bachelor's degree in related area with minimum CGPA 3.67/4.00 (fast-track to PhD).

# ADMISSION PROCESS

