

ACADEMIC PROGRAMMES

Bachelor of Applied Science in Geophysics with Honours

Master of Science in Applied Geophysics - Mixed Mode

Master of Science in Physics: Exploration Geophysics - Research Mode

PhD in Physics: Exploration Geophysics - Research Mode

RESEARCH FIELDS

Near Surface Geophysics

- Mineral Exploration
- Archaeology
- Groundwater
- Geothermal Resources
- Geohazards
- Engineering & Environmental Geophysics

Geology

- Structural Mapping
- Lithological Mapping
- Sedimentology



Remote Sensing Applications

- Physical Oceanography
- Meteorology
- Atmospheric & Weather
- Land Geohazards
- Climate Sciences

Petroleum

- Seismic Processing
- Seismic Interpretation
- Basin Analysis



LICENSED SOFTWARES



GEOPHYSICS GROUP

INSTRUMENTS



CONTACT US !

We're excited to collaborate with you! Whether you're interested in joint research, consulting, sponsoring activities, or supporting our student outreach programs, our team is ready to work together. Let's connect and explore how our expertise can support your goals.

+604 - 653 3200 dean_phy@usm.my



SCHOOL OF PHYSICS

UNIVERSITI SAINS MALAYSIA

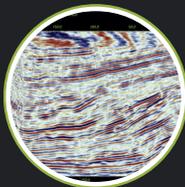
ABOUT US

We are a team of dedicated university lecturers from one of Malaysia's top research universities, bringing together extensive expertise across the comprehensive field of geosciences. Our specializations span geophysics, geology, oceanography, meteorology, and remote sensing, enabling us to tackle a wide range of challenges in Earth sciences.

Our group is committed to advancing scientific knowledge and providing innovative solutions through collaborative research and consultancy services. We work closely with universities, industries, and government agencies, offering tailored expertise to meet the unique needs of each project. Leveraging state-of-the-art technologies and methodologies, we address issues including the management of multi-geohazards, striving to deliver impactful results that contribute to the sustainable management and understanding of our planet's resources.



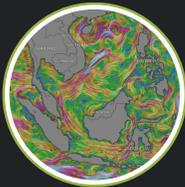
GEOLOGY



GEOPHYSICS



**ENVIRONMENT
GEOHAZARDS**



OCEANOGRAPHY



METEOROLOGY



**REMOTE
SENSING**



Assoc. Prof. Dr. Lim Hwee San

(hslim@usm.my)

BSc Geophysics, *Universiti Sains Malaysia*
MSc Physics, *Universiti Sains Malaysia*
PhD Remote Sensing & GIS, *Universiti Sains Malaysia*

Expertise:

- Geophysics
- Remote Sensing
- Digital Image Processing
- Meteorology & Atmospheric Science



Assoc. Prof. Dr. Nurdiana Binti Mohd Muztaza (mmnurdiana@usm.my)

BSc Geophysics, *Universiti Sains Malaysia*
MSc Physics, *Universiti Sains Malaysia*
PhD Exploration Geophysics, *Universiti Sains Malaysia*

Expertise:

- Groundwater
- Mineral Exploration
- Archaeology
- Engineering & Environment



Dr. Teoh Ying Jia (tyj@usm.my)

BSc Geophysics, *Universiti Sains Malaysia*
MSc Geophysics, *Universiti Sains Malaysia*
PhD Applied Geology, *Curtin University of Technology Australia*



Expertise:

- Applied Geology
- Sedimentology & Stratigraphy
- Petroleum Geoscience
- Geological Formation Evaluation

Dr. Nur Azwin Binti Ismail (nurazwin@usm.my)

BSc Geophysics, *Universiti Sains Malaysia*
MSc Physics, *Universiti Sains Malaysia*
PhD Geophysics, *Universiti Sains Malaysia*



Expertise:

- Geotechnical & Engineering Geophysics
- Environmental Geophysics
- Archeological Geophysics
- Shallow Subsurface Imaging



Assoc. Prof. Dr. Andy Anderson Anak Bery (andersonbery@usm.my)

BAppSc., Geophysics, *Universiti Sains Malaysia*
MSc. Physics, *Universiti Sains Malaysia*
PhD Exploration Geophysics, *Universiti Sains Malaysia*

Expertise:

- Applied Geophysics
- Geostatistics
- Soil Physics
- Engineering Geophysics



Dr. Ismail Bin Ahmad Abir (iahmadabir@usm.my)

BSc Geophysics, *University of Houston Texas, U.S.*
MSc Geophysics, *University of Houston Texas, U.S.*
PhD Geophysics, *University of Houston Texas, U.S.*

Expertise:

- Structural Geology & Active Tectonics
- Applied Geophysics
- Geohazard Studies
- Interferometry in Remote Sensing



Dr. Joseph A/L Gnappragasan

(joseph.gnappragasan@usm.my)

BSc Geology, *Universiti Malaya*
MSc Petroleum Geology, *Universiti Malaya*
PhD Geology, *Universiti Kebangsaan Malaysia*



Expertise:

- Seismic Interpretation (2D & 3D)
- Seismic Data Processing
- Seismic Attribute Analysis
- Seismic Exploration Studies

Dr. Sya'rawi Muhammad Husni bin Mohd Sharoni (syarawi@usm.my)

BSc Geophysics, *Universiti Sains Malaysia*
MRes Ocean Science, *Universiti of Southampton, UK*
PhD Remote Sensing, *Universiti Teknologi Malaysia*



Expertise:

- Physical Oceanography
- Meteorology - Oceanography Interactions
- Big Data Analysis & Machine Learning
- Microwave Remote Sensing