



SPECIALISATION OVERVIEW

PhD of Health Science Molecular Biology

OBJECTIVE

This course aims to provide students with a solid foundation in molecular biology, preparing them for advanced studies or careers in research, medicine, biotechnology, and related fields. Relevant ethical and Islamic issues will also be highlighted.

AREAS

This programme provides the fundamental principles and techniques in molecular biology. It explores the molecular mechanisms that underlie the structure and function of living organisms, providing a comprehensive understanding of the key concepts in this dynamic field.

RESEARCH TRAINING

Students will delve into the structure of biomolecules, gene expression, genetic regulation, and the application of molecular biology in various scientific and practical contexts. This course prepares the students with essential molecular biology techniques, such as PCR, gel electrophoresis, DNA sequencing, and cloning.

Active engagement in seminars, workshops, and conferences is strongly recommended to remain abreast of the latest advancements in the field.

DURATION OF STUDY

Full-time: 2 - 6 years

Part-time: 3 - 8 years

ASSESSMENT METHODS

Proposal Presentation



Progress Report



Finding Presentation



Viva-voce



GRADUATE REQUIREMENT

Publication Equivalent (PE): **2**

Type of Publication	PE
Indexed Journal	1
Non-indexed Journal	0.7
Indexed Conference Proceeding	0.6
Poster, non-indexed conference proceedings or any publications recognised by the Kulliyah	0.3

EXPERTISE

- 1) **Prof. Dr. Sirajudeen Kuttulebbai
Naina Mohamed Salam**
Biochemical Pharmacology &
Toxicology, Oxidative Stress &
Antioxidants, Natural products,
Metabolic Diseases
knssiraj@iium.edu.my

- 2) **Assoc. Prof. Dr. Nor Zamzila
Abdullah**
Chemical Pathology
zamzila@iium.edu.my

- 3) **Asst. Prof. Dr. Noraihan Mat Harun**
Carbohydrate & Lipid Metabolisms,
Cell Signalling
noraihan@iium.edu.my

- 4) **Asst. Prof. Dr. Nurul Ashikin
Muhammad Musa**
Cardiovascular Diseases, Molecular
genetics, Molecular Biochemistry
nurulashikin@iium.edu.my