

## About this programme

This programme aims to produce graduates who have a good foundation and experience in the field of Biomedical Science allowing them to do scientific work and research in the field of human health and disease. In addition to proficiency in medical laboratory procedures and operation techniques, a Biomedical Science graduate can also manage diagnostic, business and industrial laboratories.

### DURATION OF STUDY

4 years

### MODE OF STUDY

Full Time

### ACADEMIC PATHWAYS

- Biomedical / Healthcare Scientist
- Academician
- Research Scientist (medical)
- Health Policy Professional
- Marketing of Medical Equipment
- Medical Science Liaison
- Application Specialist
- Medical Underwriter & Claim Officer
- Quality Control Officer
- Bio-entrepreneur

### ENTRY REQUIREMENTS

#### Obtain MUET Band 3 or its equivalent; AND

- Pass Matriculation/Foundation/Asasi/STPM or an equivalent programme with a minimum CGPA of 2.33 in two of the following subjects:
  - i. Biology
  - ii. Physics/Mathematics
  - iii. Chemistry
- Pass GCE A Level with minimum Gred D in two of the following subject:
  - i. Biology
  - ii. Physics/Mathematics
  - iii. Chemistry
- Pass Diploma (Level 4 MQF) or its equivalent in a related field with a minimum CGPA of 2.75; OR
- Pass Diploma (Level 4 MQF) or its equivalent in a related field with a CGPA less than 2.75 can be accepted, with at least 3 years of working experience in the related field. OR
- International Baccalaureate Diploma - Pass IB Diploma with minimum 24 points in 6 subjects including 5 points at Higher Level (HL) in any two (2) subjects below:
  - i. Biology; and
  - ii. Chemistry; and
  - iii. Physics or Mathematics
- Pass DKM/DLKM/DVM in related field (Applicants are required to undergo screening and suitable enhancement programme relevant to the field of programme)

#### ENGLISH COMPETENCY REQUIREMENT (INTERNATIONAL STUDENT)

Minimum score IELTS of 5.5 or equivalent

#### Admission criteria through APEL.A:-

- i. At least 21 years of age in the year of application.
- ii. Possess relevant work experience.
- iii. Pass the APEL.A assessment for Bachelor's degree level.

### PROGRAMME STRUCTURE

#### YEAR 1

- Organic Chemistry
- Anatomy and Physiology I
- Falsafah dan Isu Semasa (FIS)
- Biochemistry
- Laboratory Techniques
- Laboratory Instrumentation
- Penghayatan Etika dan Peradaban (PEP)
- Basic Microbiology
- English for Academic Enrichment
- Leadership and Professional Development
- Anatomy and Physiology II
- Medical Biochemistry

#### YEAR 2

- Clinical Microbiology
- Immunology and Serology
- Cell Biology
- Blood Banking and Transfusion Science
- Integrity and Anti-Corruption
- Epidemiology
- Molecular Biology
- Basic Pathology
- Basic Hematology
- Biostatistics
- AMUnited 2

#### YEAR 3

- Medical Entomology
- Medical Parasitology
- Clinical Pathology
- Laboratory Management
- Research Methodology
- Histocytopathology
- Biomedical Diagnostic I
- Pharmacology
- Research Project I
- Strategic Planning and Marketing in Healthcare Services
- Occupational Health and Safety
- Pathophysiology

#### YEAR 4

- Biomedical Diagnostic II
- Research Project II
- Toxicology/Neuropharmacology
- Interprofessional Learning /Critical Thinking
- Introduction to Mandarin /Health insurance
- Industrial Training I
- Industrial Training II