

# BACHELOR OF BIOMEDICAL SCIENCES (HONOURS)

**OPEN DISTANCE LEARNING** 

KPT/JPS (N-DL/0910/6/0005) (MQA/FA 11673) 05/26

# FACULTY OF PHARMACY AND BIOMEDICAL SCIENCES

Evolution lies at the heart of biology. It is seamlessly and continuously linked to health research to better understand such conditions as AIDS or bird flu or Parkinson's or cancer or heart disease. Every biomedical experiment, every tiny advance, every major breakthrough ultimately connects to the principles first postulated by Darwin.

**HUNTINGTON WILLARD** 

### PROGRAMME OVERVIEW

This programme focuses on how cells, organs and systems function in the human body; an exciting and dynamic area that is highly relevant to the understanding and treatment of human diseases. As long as new strains of diseases emerge, causing a detrimental effect on the health of our communities, biomedical science will play an important role in healthcare delivery. Correct diagnosis of disease is imperative. Patients' lives rely greatly on the results of clinical laboratory investigations conducted by capable biomedical scientists. As such, biomedical science is a profession that will continue to expand, especially in Malaysia where there has been rapid growth in the healthcare system.

Modes of delivery include asynchronous e-learning (online learning materials), synchronous e-learning (online teaching), face-to-face lectures and tutorials, and practical sessions (at the learning centers).

### AIMS & OBJECTIVES

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The aim of this course is to assist students in a structured way to orientate and train themselves in areas of selected professional interest. The purpose is to provide fundamental knowledge to build skills needed for successful career achievement. This objective seeks to make the graduate employable and trainable. Another objective is to train students in laboratory skills such as planning of experiments, data acquisition, and management and analysis to a selected research problem.

### **DURATION**

INTAKE

- 4 years
- Diploma in Medical Laboratory Technology entry 3 years (year 1 exempted)

2 intakes a year (April & September)

# ENTRY REQUIREMENTS

- Pass STPM/Matriculation/Pre-University or equivalent qualification with a minimum GPA of 2.33 in 2 of the following subjects: Biology/Physics or Mathematics/Chemistry
- A-Levels or equivalent qualification with a minimum of Grade D in 2 of the following subjects: Biology/Physics or Mathematics/Chemistry
- A recognised Diploma with a minimum a CGPA of 2.75 in related field
- A recognised Diploma with a CGPA of less than 2.75 in related field and a minimum of 3 years (36 months) working experience in the related field
- South Australian Matriculation (SAM): Score 14 in 3 subjects including Chemistry & Mathematics & Biology/Physics)
- New Zealand Bursary: Aggregate 65% for 3 subjects including Chemistry & Mathematics & Biology/Physics
- Canadian Pre-University (CPU)/Canadian International Matriculation Programme (CIMP)/Monash University
   Foundation Pre-University Programme (MUFY)/Western Australian Curriculum Council/Trinity College Foundation
   Studies/Higher School Certificate Sydney Australia: Aggregate 60% for 3 Science subjects including Chemistry &
   Mathematics & Biology/Physics
- University of New South Wales Foundation: Pass with 3 Principal D for 3 subjects including Mathematics & Chemistry & Biology / Physics
- Indian Pre-University: 75% aggregate for 3 subjects including Chemistry & Mathematics & Biology/Physics
- American High School Diploma with Advanced Placement (AP): CGPA 2.60 for 3 subjects including Chemistry & Mathematics & Biology/Physics
- English Proficiency: Malaysian candidates: MUET Band 3 or IELTS (5.5)/TOEFL (550)
- International candidates: IELTS (5.5)/TOEFL (550) paper-based or equivalent

### PROGRAMME STRUCTURE

#### Semester 1 (Year 1)

Basic Biostatistics

Laboratory Science & Instrumentation I

English for Academic purpose

TITAS (Tamadun Islam Dan Asia) – for national students

Malaysian studies 3 - for international students

Biochemistry & Genetics

Basic Haematology

Medical Parasitology & Entomology

Human Biochemistry

#### Semester 2 (Year 1)

Basic Pathology

Hubungan Etnik - for national students

Bahasa Melayu Komunikasi 2 - for international students

Basic Immunology

Basic Microbiology

English for Academic writing

Laboratory Science & Instrumentation II

Cytology

Basic Pharmacology

Psychology & Behavioural Sciences

#### Semester 1 (Year 2)

Laboratory Management

Clinical Biochemistry I

Human Anatomy & Physiology I

Medical Microbiology

Health Informatics

Molecular Biology Techniques

Youth Development (MPU3)

#### Semester 2 (Year 2)

Clinical Biochemistry II

Human Anatomy & Physiology II

Toxicology

Transfusion Science & Blood Banking

**Human Genetics** 

Epidemiology

Environmental Microbiology

Principles of Laboratory animal sciences

#### Semester 1 (Year 3)

Advanced Immunology

Entrepreneurship (MPU2)

Advanced Pathology & Cytology

Advanced Haematology

Clinical Microbiology

Self Study Review in Medical Microbiology

Self Study Review in Chemical Pathology

#### Semester 2 (Year 3)

Biomedical Practicum

#### Semester 1 (Year 4)

Intellectual Property, Bioethics, Biosafety & Biosecurity

Special Topics in Biomedical Sciences

Community Service

Research Methodology

Food Microbiology

Metabolic Disorders

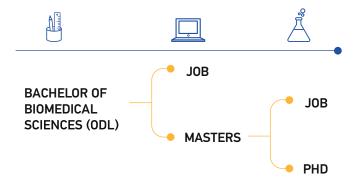
#### Semester 2 (Year 4)

Research Project

Case Study & Problem Solving

Personal & Professional Development

# PROGRESSION PATHWAY



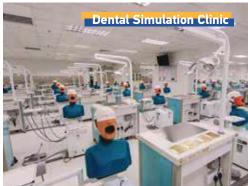
# CAREER OPPORTUNITIES

- BIOMEDICAL SCIENTIST
- FORENSIC SCIENTIST
- HEALTHCARE SCIENTIST, CLINICAL BIOCHEMIST
- HEALTHCARE SCIENTIST, GENETICIST
- HEALTHCARE SCIENTIST, HAEMATOLOGIST
- MEDICINAL CHEMIST
- MICROBIOLOGIST
- PHYSICIAN ASSOCIATE
- RESEARCH SCIENTIST (Medical)
- TOXICOLOGIST















## **MAHSA UNIVERSITY**

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