



MAHSA
UNIVERSITY

BACHELOR OF BIOMEDICAL SCIENCES (HONS)

OPEN DISTANCE LEARNING

KPT/JPS (N-DL/725/6/0101)(MQA/PA 11673) 05/26

FACULTY OF MEDICINE, BIOSCIENCE & NURSING

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

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

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

INTAKE

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

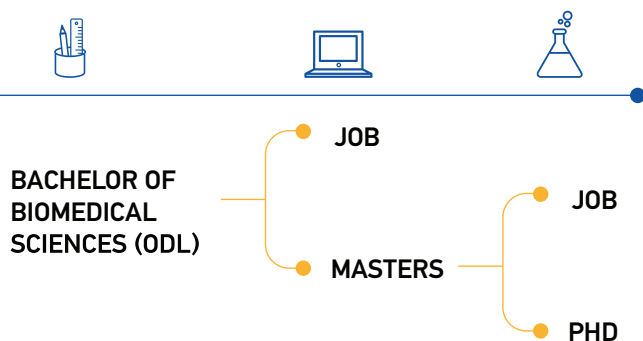
Semester 1 (Year 4)

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

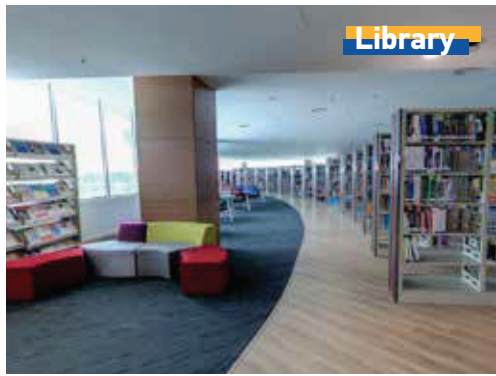


CAREER OPPORTUNITIES

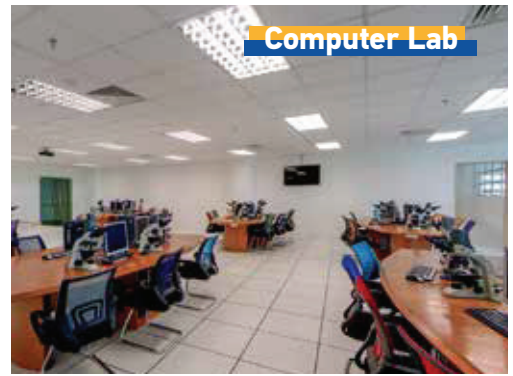
- BIOMEDICAL SCIENTIST
- FORENSIC SCIENTIST
- HEALTHCARE SCIENTIST, CLINICAL BIOCHEMIST
- HEALTHCARE SCIENTIST, GENETICIST
- HEALTHCARE SCIENTIST, HAEMATOLOGIST
- MEDICINAL CHEMIST
- MICROBIOLOGIST
- PHYSICIAN ASSOCIATE
- RESEARCH SCIENTIST (Medical)
- TOXICOLOGIST



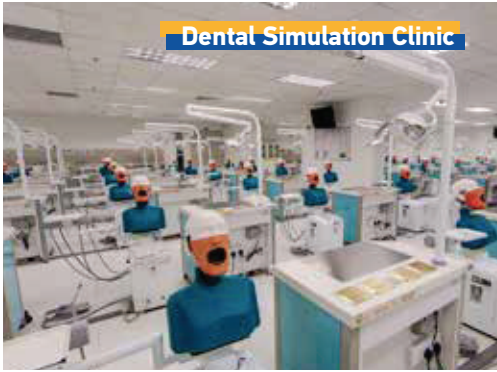
The Habitat



Library



Computer Lab



Dental Simulation Clinic



Anatomy Digital Lab



Operation Theatre



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