



INTERNATIONAL MEDICAL UNIVERSITY  
MALAYSIA

# BIOMEDICAL SCIENCE

SCHOOL OF  
HEALTH SCIENCES

2018



# What Is IMU's Biomedical Science Programme About?

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## Overview

For the Biomedical Science programme, students have the option to complete the entire 3-year programme in IMU or study part of the programme in IMU and transfer to one of the University's partners in Australia, New Zealand and the United Kingdom. Through this arrangement with the partner universities, IMU students wishing to move on to one of these universities will receive academic credits for the subjects they have successfully completed in IMU and use these towards the completion of their degree.

In addition to didactic large group teaching sessions (plenaries), the programme is also delivered through small group teaching sessions (problem-based learning, laboratory practicals, workshops, computer-aided learning, tutorials, seminars, presentations and attachments / placements). Such small group teaching sessions will provide opportunities for the development of a range of skills necessary for the biomedical scientist. The projects in Semester 5 provide an opportunity for students to conduct studies in the field of biomedical science and it is hoped that students will acquire critical thinking and analytical skills necessary for postgraduate training later.

Students will be exposed to 26 weeks of industrial placement mainly with biomedical laboratories (Pantai Premier Pathology Sdn Bhd, BP Healthcare etc.) and / or research laboratories within Malaysia or abroad.

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## DEGREE / DURATION

**Bachelor of Science (Hons)  
Biomedical Science (IMU) —  
3 years**

**Degree from partner  
universities — 3 – 4 years**



This programme is accredited by the Institute of Biomedical Science (IBMS)

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## PARTNER UNIVERSITIES

### AUSTRALIA



### NEW ZEALAND



### UNITED KINGDOM



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## COMMENCEMENT

**July and September**

**A Word from the IMU Biomedical Science Programme Director  
and Executive Head of Education, Institute of Biomedical Science**

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“IMU is a reputed University focusing on producing knowledgeable and skilful professionals equipped with lifelong learning skills. IMU’s 3-year Biomedical Science programme is custom made to produce work-ready, caring and competent graduates with excellent communication and social skills to ensure that they are readily employable upon graduation. Feedback from employers is highly encouraging and vouches for the high quality of our graduates.”

**DR EBENEZER CHITRA — Lecturer & Programme Director**  
BSc Ag. MSc Biotech, PhD Immunology

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“The Institute of Biomedical Science (IBMS) is dedicated to the promotion, development and delivery of excellence in biomedical science. We support our members through training, education and professional development, setting quality standards and supporting our profession.”

**ALAN C. WAINWRIGHT — Executive Head of Education,  
Institute of Biomedical Science (IBMS)**  
BA, CertMHS, CSci, FIMLS,

# How Does the Programme Work?

## Biomedical Science Programme Structure

### MPU SHORT SEMESTER

#### MPU1 (2 compulsory modules)

Hubungan Etnik and Tamadun Islam dan Tamadun Asia OR

Pengajian Malaysia 3 and Bahasa Melayu Komunikasi 2

#### MPU2 (English for Health Sciences)

#### MPU3 (Choose 1 below)

History of Health professionals

Science Fictions, Horror & Fantasy

Survey of Asian Literature

Introduction to Media Literacy

### SEMESTER

## 1

Principles of Biology and Genetics

General Biochemistry

Laboratory Management and Professional Practice

Anatomy and Physiology

General Pathology and Histotechnology

Statistics for Biomedical Scientists

Medical Laboratory Instrumentation

### SEMESTER

## 2

Cardiovascular System

General Pharmacology

Haematology and Transfusion Science

Microbiology

Metabolic biochemistry

Medical Epidemiology and Public Health

Renal System

### SEMESTER

## 3

Central Nervous System

Molecular Biology and Biotechnology

Management & Experimentation on Animals

Selective

Respiratory System

Gastrointestinal System

Histopathology & Cytopathology

Biomedical Informatics

### SEMESTER

## 4

#### MPU4

Immunology

Clinical Biochemistry

Parasitology & Entomology

Musculoskeletal System

Genomics & Molecular Diagnostics

Endocrine System

Reproductive System

### SEMESTER

## 5

Biomedical Toxicology

Forensic Science & Pathology

Enterprise Management for Biomedical Science

Current Trends in Biomedical Science

Research Project

Law & Ethics for Health Professionals

Research Methodology

### SHORT SEMESTER

Practical Attachment - The Apprentice - I

### SEMESTER

## 6

Practical Attachment - The Apprentice - II

The curriculum is reviewed periodically and is subject to change.

The MPU modules are compulsory modules imposed by Ministry of Higher Education under the Private Higher Educational Institutions Act 1996 (Act 555). All students must take these modules and pass as a prerequisite for the award of the degree.

## Assessment

Students will be assessed through their class tests, practical reports, workshops, portfolios, projects, logbooks, written reports, presentations, dissertations and end-of-semester examinations.

## Recognition

IMU's Biomedical Science students have made significant achievements in their academic portfolio. A notable recognition being the positive feedback from external supervisors on the performance of IMU's Semester 6 students who interned in Singapore and Taiwan through the Student Mobility Programme under IMU's ASPIRE initiative. Such positive feedbacks reinforces IMU's reputation of its graduates' quality.

## Career Pathway

Biomedical Science programme emphasises on clinical laboratory skills and human organ systems. It is a career that is in demand especially in the areas of clinical pathology laboratories, food industries and biomedical research. Biomedical scientists can take up careers in forensic medicine, education, management and scientific journalism.

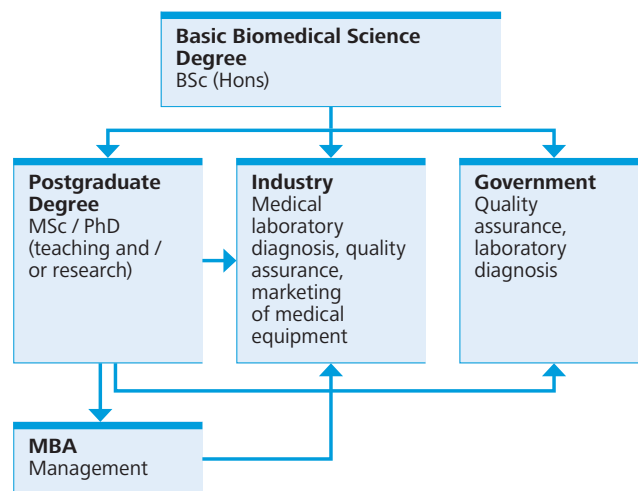
Biomedical scientists are valued members of any healthcare team. Their nature of work includes performing chemical analysis of blood and other body fluids to detect diseases, diagnose illnesses and evaluate effectiveness of treatments.

Medical, veterinary and agricultural research in universities and research / healthcare institutions are also areas in which biomedical scientists are needed. Industries in pharmaceuticals, biotechnology, chemicals, and cosmetics & toiletries also employ biomedical scientists for research and development.

Biomedical Science graduates can undertake postgraduate degrees in any of the related disciplines. They could also pursue a career in education. The Biomedical Science degree can also be used as graduate entry path into medicine.

Many of our graduates have secured research assistant positions in public and private universities nationwide, including UPM, UM, NUS, LEEDS, CARIF and IMU.

## CAREER PATHS FOR BIOMEDICAL SCIENTISTS



## AREAS & SCOPE OF WORK OF BIOMEDICAL SCIENTISTS

Key Area	Workscope
<b>Healthcare</b> Public & private hospital laboratories, public health laboratories, private pathological laboratories	<ul style="list-style-type: none"> <li>• Chemical analysis of body fluids and haematological analysis of blood samples</li> <li>• Isolation of micro-organisms</li> <li>• Matching blood of donors to recipients to ensure compatibility</li> </ul>
<b>Forensics</b>	<ul style="list-style-type: none"> <li>• Crime-solving</li> </ul>
<b>Research</b> Universities, research / health institutions	<ul style="list-style-type: none"> <li>• Medical, veterinary and agricultural research</li> </ul>
<b>Industry</b> Pharmaceutical, biotechnology, chemicals, cosmetics & toiletries companies	<ul style="list-style-type: none"> <li>• Research and development of new products</li> </ul>

# Why Study Biomedical Science at IMU?

1

## An Established Private Healthcare University

IMU is Malaysia's first and most established private medical and healthcare university with over 26 years of dedicated focus in healthcare education. IMU achieved the SETARA-2017 Tier 6 status (Outstanding) under the Mature University category.

2

## Build Your Future Healthcare Professional Network

As IMU offers the widest range of healthcare programmes, our students are fully immersed in a vibrant community of students and practitioners from all healthcare fields. This allows for the development of strong friendship amongst peers that will be the foundation of an extensive healthcare professional network upon graduation.

3

## Curriculum Benchmarked to International Standards

IMU's Biomedical Science curriculum has been developed to meet high international standards and is accepted by University of Newcastle, Australia, University of Otago, New Zealand and University of Strathclyde, Scotland, England for credit transfer into their medical laboratory science and biomedical science programmes.

4

## Better Exposure to Practical Training

Students will have many hours of hands-on practical sessions where every student has the opportunity to hone his / her skills in the microbiology lab, pathology lab, etc. This will be an advantage to the students in their future careers.

5

## Better Preparation to be a Biomedical Scientist

With exposure to industrial attachment and research, students will be better prepared to be a competent biomedical scientist, upon graduation.

6

## Accredited by the Institute of Biomedical Science in UK

The IMU Biomedical Science programme has been accredited by the prestigious Institute of Biomedical Science (IBMS), UK. Getting an IBMS-accredited Biomedical Science honours degree from the IMU will give you all the necessary scientific knowledge, skills and training to begin a career in biomedical science and be eligible for registration with the Health and Care Professions Council (HCPC) in the UK.

# How Much Does It Cost?

## Biomedical Science Programme Fees

All fees quoted are in Ringgit Malaysia unless stated otherwise.

### FEES OVERVIEW

Fee	Amount (RM)	
	Malaysian Student	International Student
Application Fee	150	500
Registration Fee	850	2,000
Refundable Caution Deposit	1,000	1,000
Tuition Fee	111,000	117,300

- Application fee is payable upon submission of application.
- Registration fee and refundable caution deposit are payable upon acceptance of the offer letter issued by the IMU Admissions Office.
- As stipulated by Malaysian Ministry of Higher Education, international students will have to pay Student Visa Application fee of RM1,000 and Medical Health Check fee of RM250 and Visa endorsement fee (depending on nationality) upon registration.
- International students will also be required to pay Student Visa Renewal Administrative fee of RM140/year and Medical Health Check fee of RM250/year.
- Students must adhere to the "Policy on Payment of Fees".
- All students are required to pay Student Association Fees of RM40 per semester.

### FEES BY PROGRAMME ROUTES

Programme Route	Total Duration (years)		At International Medical University (IMU)						At Partner University (PU)				At IMU + PU	
			Years	Total Semesters	Tuition Fee				Years	Total Semesters	Tuition Fee *		Total Tuition Fees **	
					Per Semester		Total				Per Year	Total		
					Malaysian Student	International Student	Malaysian Student	International Student					Malaysian / International Student	Malaysian / International Student
<b>Bachelor of Science (Hons) Biomedical Science (IMU)</b>	3	3	6	18,500	19,550	111,000	117,300	–	–	–	–	–	–	
<b>Credit Transfer to University of Newcastle</b> Bachelor of Biomedical Science	3	1½	3	18,500	19,550	55,500	58,650	1½	3	A\$33,625	A\$50,438	215,388	218,538	
<b>Credit Transfer to University of Otago</b> Bachelor of Medical Laboratory Science	4	2	4	18,500	19,550	74,000	78,200	2	4	NZ\$36,960	NZ\$73,920	286,890	291,090	
<b>Credit Transfer to University of Strathclyde</b> BSc (Hons) Biomedical Science	4	2	4	18,500	19,550	74,000	78,200	2	4	£18,000	£36,000	278,120	282,320	

#### Note

\* Current estimates only.

\*\* Based on exchange rates: A\$1 ≈ RM3.17, NZ\$1 ≈ RM2.88, £1 ≈ RM5.67

- Tuition and ancillary fees at partner universities overseas are subject to annual increases.
- All fees are accurate at time of print. For latest fees and information, please go to [www.imu.edu.my](http://www.imu.edu.my).

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## Programmes at IMU

### Pre-University

Foundation in Science  
KPT/JPT(N/010/3/0186)09/2018

### Undergraduate

Medicine  
KPT/JPT(R/721/6/0033)09/2019

Dentistry  
KPT/JPT(R2/724/6/0010)01/2023

Pharmacy  
KPT/JPT(R/727/6/0050)09/2019

Pharmaceutical Chemistry  
KPT/JPT(R2/442/6/0003)01/2023

Dietetics with Nutrition  
KPT/JPT(R2/726/6/0021)09/2022

Nutrition  
KPT/JPT(R/726/6/0011)06/2022

Biomedical Science  
KPT/JPT(R2/421/6/0011)09/2022

Medical Biotechnology  
KPT/JPT(R2/545/6/0014)09/2022

Psychology  
KPT/JPT(R2/311/6/0013)09/2022

Chiropractic  
KPT/JPT(R/726/6/0054)08/2019

Chinese Medicine  
KPT/JPT(R/721/6/0059)01/2020

Nursing Science  
(for registered nurses)  
KPT/JPT(R/723/6/0101)01/2019

Teaching Methodology  
(Post Basic Certificate)  
KPT/JPT(N/723/3/0121)09/2019

### Postgraduate

Public Health (MSc)  
KPT/JPT(R/720/7/0077)09/2020

Analytical & Pharmaceutical  
Chemistry (MSc)  
KPT/JPT(R-CDL/442/7/0001)01/2022

Molecular Medicine (MSc)  
KPT/JPT(R/545/7/0078)07/2022

Pharmacy Practice (Master)  
KPT/JPT(N/727/7/0051)03/2019

Health Professions Education (HPE)  
(Postgraduate Certificate/  
Postgraduate Diploma/Master)  
KPM/JPT(N/145/7/0066)09/2020  
KPM/JPT(N/145/7/0064)09/2020  
KPM/JPT(N/145/7/0070)09/2020

Implant Dentistry (Postgraduate Diploma)  
KPT/JPT(N/724/7/0019)06/2021

Medical & Health Sciences  
(MSc & PhD by Research)  
KPT/JPT(R/721/8/0043)01/2020  
KPT/JPT(R/720/7/0049)06/2019



INTERNATIONAL MEDICAL UNIVERSITY  
MALAYSIA

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ISO 9001:2008 Cert. No. KLR 0500119

The IMU has been KLR certified with MS ISO 9001:2008 for the provision of tertiary education in medicine, pharmacy and health sciences.

Every effort has been made to ensure the accuracy of the information given in this brochure but it is subject to alteration without notice.

The University reserves the right to alter or delete any of the information included at any time and it shall not be bound by any errors or omissions and cannot accept liability in respect thereof.

Please visit [www.imu.edu.my](http://www.imu.edu.my) for the most up-to-date information.

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