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.

<table>
<thead>
<tr>
<th>DEGREE / DURATION</th>
<th>PARTNER UNIVERSITIES</th>
<th>UNITED KINGDOM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bachelor of Science (Hons)</strong></td>
<td><strong>AUSTRALIA</strong></td>
<td><strong>University of Strathclyde</strong></td>
</tr>
<tr>
<td><strong>Biomedical Science (IMU)</strong></td>
<td><strong>The University of Newcastle Australia</strong></td>
<td>Glasgow</td>
</tr>
<tr>
<td>3 years</td>
<td><strong>NEW ZEALAND</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Degree from partner</strong></td>
<td><strong>UNIVERSITY OF Otago</strong></td>
<td></td>
</tr>
<tr>
<td><strong>universities</strong></td>
<td>21st Century Medical School</td>
<td></td>
</tr>
<tr>
<td>3 – 4 years</td>
<td><strong>N E W Z E A L A N D</strong></td>
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</tr>
</tbody>
</table>

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

What Is IMU’s Biomedical Science Programme About?
“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 (Agriculture) (India), MSc (Biotechnology) (India), PhD (Immunology) (India)

“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.
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.

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount (RM)</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>150</td>
<td>500</td>
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<tr>
<td>Registration Fee</td>
<td>850</td>
<td>2,000</td>
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<tr>
<td>Refundable Caution Deposit</td>
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<td>1,000</td>
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<tr>
<td>Tuition Fee</td>
<td>111,000</td>
<td>117,300</td>
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</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Programme Route</th>
<th>At International Medical University (IMU)</th>
<th>At Partner University (PU)</th>
<th>At IMU + PU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Duration (years)</td>
<td>Years</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>Total Semesters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science (Hons) Biomedical Science (IMU)</td>
<td>3 3 6</td>
<td>18,500</td>
<td>19,550</td>
</tr>
<tr>
<td>Credit Transfer to University of Newcastle Bachelor of Biomedical Science</td>
<td>3 1½ 3</td>
<td>18,500</td>
<td>19,550</td>
</tr>
<tr>
<td>Credit Transfer to University of Otago Bachelor of Medical Laboratory Science</td>
<td>4 2 4</td>
<td>18,500</td>
<td>19,550</td>
</tr>
<tr>
<td>Credit Transfer to University of Strathclyde BSc (Hons) Biomedical Science</td>
<td>4 2 4</td>
<td>18,500</td>
<td>19,550</td>
</tr>
</tbody>
</table>

**Note**
* Current estimates only.
** Based on exchange rates: A$1 = RM3.016, NZ$1 = RM2.78, £1 = RM5.427

• 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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Please visit www.imu.edu.my for the most up-to-date information.