



INTERNATIONAL MEDICAL UNIVERSITY
MALAYSIA

ANALYTICAL & PHARMACEUTICAL CHEMISTRY (MSc)

SCHOOL OF
POSTGRADUATE
STUDIES

2019



What Is IMU's Analytical & Pharmaceutical Chemistry Programme About?

Overview

The IMU's Master of Science in Analytical and Pharmaceutical Chemistry is geared to those who want to advance their careers in chemical or pharmaceutical industries and those entering the field from related areas. The modular programme is designed to fit in with full-time employment to help students balance their work commitments with learning.

The Master's programme provides graduates with an opportunity to enhance their knowledge and work-ready skills in order to advance their careers in the industry or academia.

One of the modules, 'Quality Management and Regulatory Systems' will equip graduates with the tools and knowledge needed to progress as a regulatory professional and stay ahead of the competition.

DEGREE / DURATION

**MSc in Analytical and
Pharmaceutical Chemistry —
1½ – 6 years**

COMMENCEMENT

March and September

A Word from the Programme Director

“The Masters programme builds on your undergraduate chemistry experience and provides specialised knowledge and practical experience in a wide range of modern analytical techniques. The programme also develops advanced knowledge and skills in pharmaceutical chemistry focusing on various aspects of drug discovery, design and development. Since the programme has a unique blend of both analytical and pharmaceutical chemistry disciplines, you will have good opportunities for career progression and job prospects in a range of industries.”

DR WONG LAI CHUN — Senior Lecturer & Programme Director
PhD (UK), CChem, MRSC

How Does the Programme Work?

Analytical & Pharmaceutical Chemistry Programme Structure

The programme consists of three semesters and is a combination of course work (21 credits) and research (22 credits). New semesters commence in March and September each year and each semester comprises 20 weeks.

Teaching and learning methods, comprise both conventional and blended learning approaches, are in line with objectives of programme modules. They include lectures, tutorials, laboratory sessions, workshops, case studies, critical reviews and seminars. The teaching and learning activities are conducted on weekends for convenience of students who have personal or work commitments on weekdays.

The Course Modules include:

- Modern Analytical Techniques for Qualitative Analysis (4 Credits)
- Modern Analytical Techniques for Quantitative Analysis (4 Credits)
- Principles of Drug Discovery (4 Credits)
- Computational Drug Discovery Techniques (4 Credits)
- Quality Management and Regulatory Systems (2 Credits)
- Research Methodology and Scientific Writing (3 Credits)
- Research Project I (4 Credits)
- Research Project II (18 Credits)

The curriculum is reviewed periodically and is subject to change.

Assessment

Students' progress is evaluated based on continuous assessment via project work, critical reviews, practical reports, assignments and oral presentations. Research dissertation will be assessed at the end of Semester 3.

Entry Requirements

A Bachelor Degree in related discipline with a minimum cGPA of 2.75 or equivalent, as accepted by the University's Senate; or

A Bachelor Degree in related discipline with a minimum cGPA of 2.50, but not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or

A Bachelor Degree in related discipline not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.

English Language Requirements

For International Students

- 1) IELTS : Band score 5.0; or
- 2) TOEFL (PBT) : Overall score of 410-413; or
- 3) TOEFL (iBT) : Overall score of 34; or
- 4) Cambridge English : Advanced (CAE) : Overall score of 160; or
- 5) Cambridge English : Proficiency (CPE) : Overall score of 180; or
- 6) Pearson Test of English (PTE) : Overall score of 36



Left: This modular programme is designed for students of all ages and backgrounds, who want to balance work commitments with learning.

Below: Hands-on workshops and laboratory-based practical sessions offer the unique opportunity to engage in an interactive learning environment.

Bottom: The integral research project provides you with substantial experience of working independently and communicating your research effectively and efficiently through dissertation and publication.



Why Study Analytical & Pharmaceutical Chemistry 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

Renowned and Highly Experienced Faculty

Students will be taught and supervised by staff who are experts in their field with well-established reputations nationally and internationally. The academic community of IMU pursues and achieves excellence in a wide range of research activities. Many of them present their research findings in international conferences to keep up to date with the latest development in specialised areas. They also publish their findings in international peer-reviewed journals.

3

Curriculum Benchmarked to International Standards

IMU's Analytical & Pharmaceutical Chemistry curriculum has been developed to meet high international standards and stringent Malaysian Qualifications Agency (MQA) standards. The interactive and engaging curriculum delivery style enables the students to be focused, creating a conducive environment for experiential and lifelong learning.

4

Better Preparation for Working in a Challenging Environment

The research module in the programme enhances the students analytical, critical thinking and problem solving skills, promotes their professional development and prepares them for the current challenging work environment.

5

Research Partnerships

Students will benefit from IMU's national and international research collaborations with renowned institutions in areas such as drug discovery, design and development, natural products, drug synthesis, pharmaceutical and biomedical analysis.

How Much Does It Cost?

Analytical & Pharmaceutical Chemistry Programme Fees

All fees quoted are in Ringgit Malaysia unless stated otherwise.

All IMU alumni who are self-funding their postgraduate studies and meet the eligibility criteria will be eligible for a 25% bursary.

FEES OVERVIEW

Fee	Amount (RM)	
	Malaysian Student	International Student
Application Fee	150	500
Registration Fee	1,100	3,400
Refundable Caution Deposit	2,000	2,000
Student Association Fee per Semester	40	40
Tuition Fee	43,000	57,500

- 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.

FEES BY SEMESTERS

Semester	Total (RM)	
	Malaysian Student	International Student
Semester 1	12,000	16,000
Semester 2	13,000	17,300
Semester 3	18,000	24,200
Grand Total	43,000	57,500

- Tuition fees are subject to annual increases.

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Programmes at IMU

Pre-University

Foundation in Science
KPT/JPT(R/010/3/0186)09/2023

Undergraduate

Medicine
KPT/JPT(R2/721/6/0033)09/2026

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

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

Pharmacy
KPT/JPT(R2/727/6/0050)09/2026

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

Chiropractic
KPT/JPT(R/726/6/0054)08/2026

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

Nursing
KPT/JPT(R/723/6/0125)04/2020

Nursing Science
(for registered nurses)
KPT/JPT(R2/723/6/0101)01/2024

Postgraduate

Acupuncture (MSc)
KPT/JPT(N/721/7/0071)03/2022

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

Business Administration in
Healthcare Management
(Postgraduate Certificate/Master)
KPT/JPT(N/345/7/1082)9/2023
KPT/JPT(N/345/7/1085)10/2023

Diabetes Management & Education
(Postgraduate Diploma)
KPT/JPT(N/726/7/0030)02/2023

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

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

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

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

Medical & Health Sciences
(MSc & PhD by Research)
KPT/JPT(R/721/8/0043)01/2020
KPT/JPT(R2/720/7/0049)06/2026



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The IMU has been certified with ISO 9001: 2015 for the provision of Pre-University, Undergraduate and Postgraduate Programmes for the Medical and Healthcare Professions.

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 for the most up-to-date information.

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