

PHARMACEUTICAL CHEMISTRY

KPT/JPT(R3/442/6/0003)01/2028 | MQA/A8229

Find your niche in the evolution of medical breakthroughs

Studying Pharmaceutical Chemistry offers compelling advantages in both scientific exploration and breakthroughs that elevate healthcare and enrich our daily lives. This field equips students with a understanding of drug discovery, design, synthesis, and development, empowering you to make substantial contributions to the advancement of medicine. A first-of-its-kind degree, it provides a rigorous study of pharmaceutical sciences and applied chemistry, combined with the learning of primary applications of data analytics, pharmaceutical engineering and biotechnology. Through the tutelage of leading academics and hands-on experience, you will develop the essential skills needed to excel in a growing industry, with options to transfer to universities in the UK and Australia. Come be a part of new and exciting discoveries.

Degree / Duration

Bachelor of Science (Hons) in Pharmaceutical Chemistry (IMU)* **3 years**

Degree from Partner Universities 3 – 5 years

Commencement

Feb / Apr / Jul / Sep

Partner Universities

Australia

United Kingdom University of Dundee

Accreditation

SYDNEY

ROYAL SOCIETY OF CHEMISTRY ACCREDITED DEGREE

This programme is accredited by Malaysian Qualifications Agency (MQA) and The Royal Society of Chemistry, UK. The programme is also recognised by Malaysian Institute of Chemistry (Institut Kimia Malaysia, IKM). *It has received credit recognition from the University of Sydney (USYD) into their 2-year Master of Pharmacy programme. The partnership with USYD allows our graduates to become registered pharmacists in Australia, New Zealand, and Singapore. This programme is also in partnership with University of Dundee (UoD).

Assessment

The assessment tools are designed to best suit the nature of each module. Assessments (formative and summative), such as practicals, practical skill assessments, practical exams, written tests, assignments, projects, PBL, and presentations, are integral parts of the programme. The programme also emphasises skill-based learning through over 300 hands-on practical hours, a 4-month internship, and a dedicated semester for research projects.

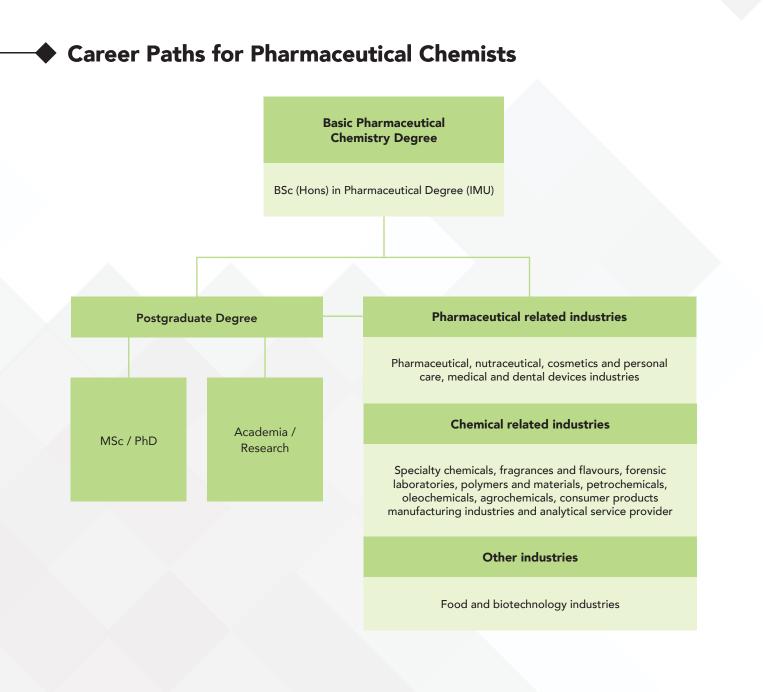
Student competencies will be systematically assessed and guided, ensuring a smooth progression to subsequent semesters.

Contact Us



Career Pathways

The demand for pharmaceutical chemists is high and expected to grow. The programme's interdisciplinary nature creates diverse career opportunities in sectors including but not limited to chemical substances, pharmaceuticals, cosmetics, fragrances, oleochemicals, petrochemicals, and agrochemicals. Areas of involvement include formulation and analysis, research and development, manufacturing, quality assurance and quality control, regulatory affair, clinical research associates, business development, product specialists, patent work, and forensic science, just to name a few. Pharmaceutical chemists are key in the ongoing global effort of new drug discoveries and medical breakthroughs.



Degree Recognition

The programme was launched in 2008 and is fully accredited by the Malaysian Qualifications Agency (MQA), Ministry of Higher Education (MoHE), The Royal Society of Chemistry (RSC), the United Kingdom, and recognised by the Institut Kimia Malaysia (IKM). The programme is in partnership with the University of Dundee in Scotland and The University of Sydney in Australia. IMU graduates are eligible to register with professional chemistry bodies such as Institut Kimia Malaysia (IKM), Royal Society of Chemistry (RSC) in UK, American Chemical Society (USA), European Chemical Society (EuChemS) and International Pharmaceutical Federation (FIP), among others.

A Pharmaceutical Chemist's Scope of Work

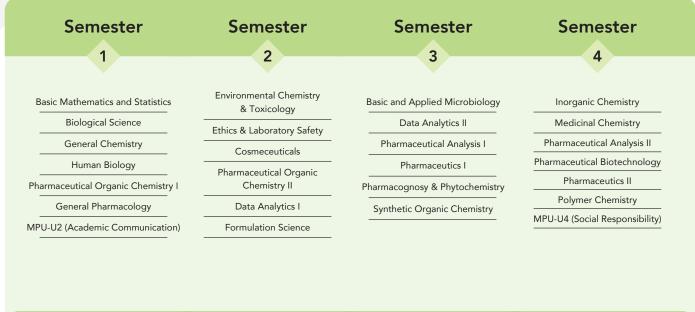
Key Area	Workscope
Pharmaceutical	Research and development, manufacturing, quality control, quality assurance, regulatory affairs, product specialists, clinical trial coordinators
Nutraceutical	Research and development, manufacturing, quality control, quality assurance, product specialists
Cosmetics and toiletries	Research and development, manufacturing, quality control, quality assurance
Chemical	Research and development, manufacturing, quality control, quality assurance, product specialists
Food and Biotechnology	Manufacturing, quality control, quality assurance, product specialists
Academia	Research project assistants, instructors for undergraduate classes
Government Agencies	Quality control, quality assurance, enforcement research and development
Analytical Service Provider and Analytical Instrument	Analytical chemists, application chemists, service engineers, and product specialists

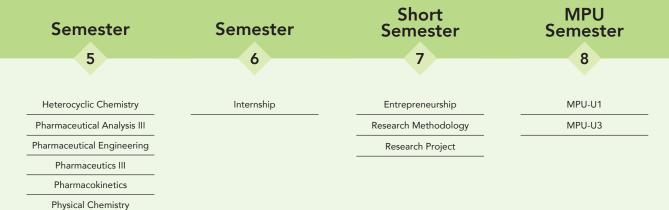
Our Alumni

Our alumni have embarked on diverse and promising career paths across various industries. Our graduates are a true testament to the versatility of their education, as they continue to excel in a wide range of professional healthcare fields. Scan the QR code to see where our graduates are today.



Programme Structure





Curriculum is reviewed periodically and subject to change.

MPU modules are compulsory, imposed by the Ministry of Higher Education under the Private Higher Educational Institutions Act 1996 (Act 555) • Every student must pass all modules as a prerequisite for the awarding of the degree.

Study Duration and Transfer Requirements

Track 1							
	Duration of Pharmaceutical Chemistry Programme						
University	Years in IMU	Years at Partner University	Total (Years)				
Malaysia							
International Medical University	3	-	3				

Track 2 Duration of the Programme Years in IMU Years at Partner University Vnited Kingdom Total (Years) University of Dundee 1* 2 3

Completion of IMU Foundation in Science (one year) is a prerequisite to this pathway.

Degrees from Partner University under Track 2:

Students under this track can transfer to the University of Dundee for the completion of their undergraduate Bachelor degree. Students will obtain one of the following degrees:

BSc (Hons) Biochemistry

- BSc (Hons) Biological Chemistry and Drug Discovery
- BSc (Hons) Biological Sciences
- BSc (Hons) Biomedical Sciences
- BSc (Hons) Microbiology
- BSc (Hons) Molecular Biology
- BSc (Hons) Molecular Genetics
- BSc (Hons) Neuroscience BSc (Hons) Pharmacology
- BSc (Hons) Physiological Sciences

Track 3

	Duration of the Programme						
University	Years in IMU	Years at Partner University	Total (Years)				
United Kingdom							
University of Dundee	1*	3	4				

Completion of IMU Foundation in Science (one year) is a prerequisite to this pathway.

Degrees from Partner University under Track 3:

This track gives students the opportunity to transfer to University of Dundee for the completion of their Integrated Master of Science degree. Students will obtain one of the following degrees: MSci Biological Sciences

MSci Biological Chemistry and Drug Discovery

- MSci Microbiology
- **MSci Molecular Genetics**
- MSci Pharmacology
- MSci Physiological Sciences
- MSci Biochemistry
- MSci Molecular Biology MSci Biomedical Sciences
- MSci Neuroscience

Duration of the Programme							
ears in IMU	Years at Partner University	Total (Years)					
United Kingdom							
1*	3	4					
e	ars in IMU	ars in IMU University					

*Completion of IMU Foundation in Science (one year) is a prerequisite to this pathway.

Degrees from Partner University under Track 4:

This track gives students the opportunity to transfer to University of Dundee for the completion of their undergraduate Bachelor and Master degree. Students will obtain one of the following degrees: BSc (Hons) Biochemistry

BSc (Hons) Biological Chemistry and Drug Discovery

BSc (Hons) Biological Sciences

- BSc (Hons) Biomedical Sciences
- BSc (Hons) Microbiology
- BSc (Hons) Molecular Biology

BSc (Hons) Molecular Genetics

BSc (Hons) Neuroscience BSc (Hons) Pharmacology

BSc (Hons) Physiological Sciences

Postgraduate Degrees (1 year)

MSc by Research MSc Biomedical and Molecular Sciences

MSc Biomedical and Molecular Sciences with Business MSc Biomedical and Molecular Sciences with Management MSc Biomedical and Molecular Sciences with Entrepreneurship MSc Biomedical and Molecular Sciences with Marketing

Track 5						
	Duration of the Programme					
University	Years in IMU	Years at Partner University	Total (Years)			
Australia						
University of Sydney	3	2	5			

Graduates from IMU's BSc (Hons) in Pharmaceutical Chemistry will be given credit recognition for certain modules in the Master of Pharmacy programme at the University of Sydney (USYD).

Track 4

Programme Fees

Fees Overview

All fees quoted are in Ringgit Malaysia unless stated otherwise.

FEE	AMOUNT (RM)					
FEE	Malaysian Student	International Student				
Application Fee	150	500				
Registration Fee	850	2,000				
Refundable Caution Deposit	1,000	1,000				

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 the Malaysian Ministry of Education, international students are required to pay Student Visa Application fee of RM2,500 AND personal bond (depending on nationality) upon registration • International students will also be required to pay Student Visa Renewal fee every year • Students must adhere to the "Policy on Payment of Fees • All students are required to pay Student Association Fees of RM40 per semester • All tuition and ancillary fees are subject to annual increases, currency exchange rates, and exclusive of levy and bridging fees (if any) • Application fee and Registration fee is non refundable • All students who are applying for the National Higher Education Fund (NHEF) loans are required to pay their semester fees in FULL by the due date stated in the invoice

Tuition Fees

	ars)	At International Medical University (IMU) စို						At Partner University (PU)				
	Total Duration (years)		ters		Tuitic	on Fee				ition Fees at niversity		
	Total Dur	Years	Years	Years	Years Total Semesters	Malaysian Student		International Student		Years	Total Semesters	Tuition Fee Per Year
			é	Per Semester	Per Year	Per Semester	Per Year					
Bachelor of Science (Hons) in Pharmaceutical Chemistry (IMU)	3	3	6	21,000	42,000	22,000	44,000	-	-	-		
Credit transfer to University of Dundee (Undergraduate degree)	3*	1	2	21,000	42,000	22,000	44,000	2	4	GBP 24,800		
Credit transfer to University of Dundee (Integrated Masters degree)	4*	1	2	21,000	42,000	22,000	44,000	3	6	GBP 24,800		
Credit transfer to University of Dundee (<i>Postgraduate</i>)	4*	1	2	21,000	42,000	22,000	44,000	3 (2 years BSc + 1 year MSc)	6	GBP 24,800 (BSc) GBP 24,800 (MScBMS) GBP 20,900 (MScBMSw) GBP 28,385 (MSc by Research)		
Credit Transfer to University of Sydney Master of Pharmacy (MPharm)	5	3	6	21,000	42,000	22,000	44,000	2	4	AUD 59,500		

*It is compulsory to complete the one-year IMU Foundation in Science prior to embarking on this pathway. Fees for Foundation in Science is RM29,400.

IMU University (formerly known as International Medical University) 126, Jalan Jalil Perkasa 19, Bukit Jalil 57000 Kuala Lumpur, Malaysia

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KP/JPS/5195/US/2, KP(JPS)/DFT/US/W03



The IMU has been certified with ISO21001:2018 and ISO 45001:2018 for the provision of Pre-University, Undergraduate and Postgraduate Programmes for the Medical and Healthcare Professions.



Want to learn more? Connect with us today! 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 uo-to-date information.

Published by the Marketing and Enrollment Office, IMU. 2024/03/v3