

## **Fulfilment in pharmaceutical chemistry**

IMU's MSc in Analytical and Pharmaceutical Chemistry (MAPC) is a mixed mode Master programme consisting of 21 credits of coursework modules and 22 credits of research project.

The coursework modules feature hands-on learning including laboratory practicals and training on chemistry computational tools in drug discovery while the research project requires original investigation that is supported and guided by your supervisory committee, individually or as part of a research team. You will also have many opportunities to network and present your research at local and international conferences.

This year, MAPC students Bu Huey Enn, Lai Jia Hui, Ung Ser Ming and Wong Yi Hang took the opportunity to present their research under the category of Pharmaceutical Chemistry and Medicinal Chemistry at the 9th International Postgraduate Conference on Pharmaceutical Sciences (iPoPS) international conference. Out of all the poster presentations, Bu,

Lai and Wong were among those selected for the best poster awards.

"My iPoPS participation allowed me to know the latest research trends in pharmaceutical sciences and provided an excellent platform to present for the first time at an international conference. I believe this experience will build and

strengthen my confidence for future presentations," shares Lai.

"I am working on machine learning-based hit discovery, although machine learningbased drug discovery is a hot topic, it's unfortunate not to have much of such research being carried out in Malaysia. This event has given me the pleasure and opportunity to share and hear works being carried out worldwide. We as researchers usually work in highly individualised environments, almost akin to silos and it is platforms like this that allow for ideas to be exchanged and to inspire the next research questions. Attending iPoPS had given me a bigger picture of what other fellow researchers are working on and the techniques they used. This sparked several ideas that might develop into my next research question," echoes Wong.

Bu and Ung also contributed their time and effort as Sponsorship Lead & Members of the student organising committee.

"The sharing sessions were insightful, constructive and highly motivating. All the information shared broadened my perspective on the research field, especially in the field of medicinal chemistry. The iPoPS conference undoubtedly served as a stepping stone for us to gain new knowledge and experience as we have the opportunity to present our research project to an international audience. I was also delighted



From left: Wong, Ung, Lai and Bu.

to join the student organising committee group. The overall success of the conference owes it all to my committee teammates and the organising chair for their continuous effort and support. Personally, my teamwork and problem-solving skills were further enhanced as a result of this experience," shares Bu.

"To be part of the iPoPS conference was a humbling experience that gave me insight into the world of scientific research and how each research presented plays an equally important role to make significant changes in society. Through this conference, I was able to present my research to a larger,

international audience in the form of a poster. As part of the sponsorship committee, I was able to aid in the designing of the virtual booth with guidance from the sponsorship lead. Overall, it was a rewarding and first-of-its-kind experience for me," shares Ung.

Graduates of the programme are work-ready to enter the industry, academia or continue to PhD. This programme is also suitable if you are already working and are seeking to improve your career prospects without having to take a break from work. Flexible part-time study enables students

to tailor their studies to their capabilities. Furthermore, the programme is also available in open and distance learning (ODL) delivery mode, while in the conventional mode, teaching and learning

activities are conducted over the weekends. The duration of the programme is one year for full-time study and up to six years for part-time study. The programme is accredited by the Malaysian Qualifications Agency and internationally accredited by the Royal Society of Chemistry, United Kingdom. The commencement of this programme is

in March and September of each year.

For more information about this or IMU's other postgraduate programmes, call 03-2731 7272, email postgraduate@imu.edu.my or visit www.imu.edu.my.

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### Postgraduate

POSTGRADUATE engineering programmes offered at UTAR are dedicated to equipping students with intellectual background and research skills which are valuable for the advancement of knowledge and the development of new ideas.

Lee Kong Chian Faculty of Engineering and Science (LKC FES) deputy dean for R&D and postgraduate programmes Ir Dr Ling Lloyd comments, "Many would think that engineering is somewhat intimidating and rigid but in truth, professional engineers with an industrial background often engage in multidisciplinary projects. This allows for experience sharing and knowledge transfer, which greatly benefits students because they learn something beyond the limits of textbooks.

"Every postgraduate programme from LKC FES is preparing future graduates to face the ever-changing future. Elective courses from other programmes are also available to offer the multidisciplinary learning needs of our graduates. Our postgraduate programmes are mostly taught by chartered engineers or registered professional engineers (Ir) in Malaysia. Many of our staff come from an

# **Engineering towards a sustainable future**

industrial background." On sustainability, Faculty of Engineering and Green Technology (FEGT) deputy dean for R&D and postgraduate programmes Dr Lo Po Kim explains, "The postgraduate course and research programmes have contributed to sustainable development based on different Sustainable Development Goals (SDGs).

"For instance, the Master of Environmental Technology programme syllabi are developed based on different environmental technologies and methods to address environmental issues; and to further achieve specific SDGs, such as SDG 6: Clean water and Sanitation, SDG 7: Affordable and Clean Energy, SDG 13: Climate Action, SDG 14: Life

★ Open and Distance Learning (ODL) mode available

026 MOA/SWA6111

**Health Professions Education** 

(PG Cert / PG Dip / Master) \*

KPT/JPT(R/145/7/0066)09/2025 MOA/SWA05162 KPT/JPT(R/145/7/0064)09/2025 MOA/PA5163 KPT/JPT(R/145/7/0070)09/2025 MOA/SWA5164 KPT/JPT(N-DL/145/7/0120)02/2026 MOA/SWA05

Implant Dentistry (PG Dip)

Molecular Medicine (MSc) \*

KPT/JPT(R2/545/7/0078)07/2027 MQA/FA1299 KPT/JPT(N-DL/545/7/0101)09/2025 MQA/SWA11357

KPT/JPT(B/727/7/0051)03/2024 MOA/SWA02796

Prosthodontics (PG Dip)

CPT/JPT(N/724/7/0042)05/2024 MQA/PSA12163

KPT/JPT(R2/720/7/0077)09/2025 A10261 KPT/JPT(N-DL/720/7/0118)09/2023 MQA/SWA11356

Medical and Health Sciences

Public Health (MSc) \*

Throughout the year

KPT/JPT(R2/720/7/0049)06/2026 A1061 KPT/JPT(R2/721/8/0043)01/2027 A3767

Pharmacy Practice (Master)

Intake in 2022

Mar/Sep

Mar/Sep

Mar/Sep

(MSc/PhD)

Jun



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New

Mar

### Programmes

Acupuncture (MSc) Sep -PT(N/721/7/0071)03/2022 MQA/SWA8570

Analytical and Pharmaceutical Chemistry (MSc) \* Mar/Sep KPT/JPT(R2-CDL/442/7/0001)01/2027 MQA/FA1191 KPT/JPT(N-DL/442/7/0022)02/2026 MQA/FA1191

**Business Administration** in Healthcare Management (PG Cert / PG Dip / Master) Mar/Sep KPT/JPT(N/345/7/1082)9/2023 MQA/PSA11354 KPT/JPT(N/345/7/1090)12/2023 MQA/SWA11355 KPT/JPT(N/345/7/1085)10/2023 MQA/SWA11353

Counselling (Master) Sep

**Diabetes Management** and Education (PG Dip) Mar/Jul

KPT/JPT(N/726/7/0030)02/2023 MQA/SWA9086 Endodontics (PG Dip) Apr

KPT/JPT(N/724/7/0043)05/2024 MQA/PSA12162 Health Informatics and

Analytics (PG Cert / PG Dip / Master) \* Sep 0/7/0131)09/2025 MQA/PSA13973 KPT/JPT(N/720/7/0130)09/2025 MOA/PSA13972 KPT/JPT(N/720/7/0129)09/2025 MOA/PSA13974

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International Medical University 126, Jalan Jalil Perkasa 19, Bukit Jalil, 57000 Kuala Lumpur, Malaysia. +603-2727 7450 start@imu.edu.my www.imu.edu.my/pg

below Water, and SDG 15: Life on Land. The latest course revision (2021) integrated the element related to the environment, social and governance (ESG). This helps expose the students to the latest industry

trend – ESG reporting." She adds, "The Master of Sustainable Construction Management's syllabi are developed in a way that allows students to have the opportunity to learn the skill of construction management within the context of sustainability, for example, green procurement, green technology application in building and construction and health and safety control."

Dr Lo also emphasises, "Our programmes provide training in a general discipline and some specialised education in a focus area. A postgraduate degree offers an advanced curriculum with a deep focus on individual subjects, providing engineers the opportunity to become experts within their chosen area of study.

"It helps to fill the demand for indispensable engineers who can play a major role in developing new solutions and advancing technologies, hence expanding old industries and creating new ones.

By choosing to go to graduate school, engineers get the opportunity to focus on a particular area of engineering with sought-after skills and individually climb the ladder at a faster pace with good salary raise." LKC FES currently offers Master of

Engineering (Electrical), Master of Engineering (Mechanical), Master of Engineering (Civil), Master of Information Systems, Master in Data Management and Analytics, Postgraduate Diploma in Data Management and Analytics, Master of Engineering Science, Doctor of Philosophy (Engineering), Master of Science, Doctor of Philosophy (Science). FEGT currently offers Doctor of Philosophy (Engineering), Master of Engineering Science, Master of Environmental Technology, Master of Sustainable Construction Management and Master of Engineering (Electronic Systems).

UTAR offers undergraduate and postgraduate programmes in areas including Accountancy, Actuarial Science, Applied Mathematics, Arts, Chinese Studies, Business and Economics, Biotechnology, Engineering and Build Environment, Information and Communication Technology, Life and Physical Sciences, Medicine and Health Sciences, Media and Journalism, Education and General Studies, and Agriculture and Food Science.

The university also engages in the provision and conduct of research, consultation, management and leadership training and other related educational services.

■ For more information, call 05-468 8888 (Kampar Campus), 03-9086 0288 (Sungai Long Campus) or visit *www.utar.edu.my*.



THERE is no doubt 21st-century economic dynamics have changed the landscape of business at home and abroad. Organisations in corporate and industrial sectors globally seek cost-effective ways to stay afloat in the red ocean. One vital question remains: are the current human capital or talent resources able to adopt and adapt to the megatrends of disruptive changes?

The MSU Master of Business Administration (MBA) centred at its Graduate School of Management (GSM) is geared towards providing only the most critical skills in talent creation in the business and management marketplace. The MSU MBA remains high on the priority list of 21st-century education for professionals and leaders in generating business-centric skills that meet human capital demands.

Adopting global standards of industry best practices, the MSU MBA modules pioneer new directions in building capacity and enhancing key abilities for all levels across the management spectrum: business innovation, strategy and decision-making, entrepreneurship, management, finance, ICT technology, governance and human resource.

The MSU MBA seeks to transform realworld practice into classrooms, for immersive 360-degree experiential learning. Advocating the United Nations Sustainability Goals, the MSU MBA incorporates practical dimensions in developing top-tier management skills encompassing entrepreneurial leadership, strategic management, Islamic finance, project management and key business and management knowledge.

The MSU MBA's combination of affordable fees, world-class teaching and leading industry collaborations has enabled the creation of a sustainable network of graduates and managers well prepared to meet the demands of 21st-century business. The MSU series of CEO and Entrepreneur Talks provide MBA students with the opportunity to be up-close and personal with global CEOs on cross-sectional approaches across the business and

### **Education for global success**

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The MSU Master of Business Administration seeks to transform real-world practice into classrooms for immersive 360-degree experiential learning.

management spectrum.

Listed under Quacquarelli Symonds (QS), MSU is a global multi-ranked institution focused on building holistic human capital. Envisioning a better, more sustainable future for all, MSU champions equality by providing a level playing field across extensive efforts in transforming lives and enriching futures.

The university's award-winning academic programmes meet the stringent standards of local and international bodies. MSU accreditors include the Malaysian Qualifications Agency, the United Kingdom's Accreditation Services for International Schools, Colleges & Universities, Japan's Alliance on Business Education and Scholarship for Tomorrow, the Netherland's Accreditation Council for Entrepreneurial & Engaged Universities, the United Kingdom's Institute of Biomedical Science as well as Sri Lanka's University Grant Commission (UGC).

MSU currently ranks in the QS Top 100 among the world's top young universities, QS Top 150 among Asia's best universities, QS Top 30 among Southeast Asia's best universities, QS Top 301+ for Graduate Employability Ranking, QS Top 601+ of the world's best universities in the QS World University Rankings 2023 and Times Higher Education Top 401+ for University Impact Rankings 2022.

Besides the MBA programme, GSM also offers PhD and master's programmes in Management/Business, Accounting/Finance, Management, Educational Management and Leadership, Education (TESL), International Business, Counselling and Guidance, Fashion Business, International Hospitality and Tourism Management, International Event Management, Counselling and Guidance and Early Childhood Education.

Lifelong learners from all walks of life may access MSU's range of postgraduate programmes and choose from a variety of study modes to fit their situation best: whether to attend classes on the weekdays, the weekends, or in the evenings or to opt for virtual learning that runs via video conference supported by online discussion. MSU also houses the Faculty of Health

MSU also houses the Faculty of Health and Life Sciences, Faculty of Business Management and Professional Studies, Faculty of Information Sciences and Engineering, International Medical School, School of Pharmacy, School of Education and Social Sciences, School of Hospitality and Creative Arts, School of Graduate Studies, and the Centre for Fundamental Studies.

In all, as an applied, enterprise, holistic and international university, MSU offers foundation, undergraduate, postgraduate and flexible programmes through an entry system that facilitates admission of students from all walks of life, where it aims at transforming lives and enriching futures.

■ For more and information about postgraduate programmes offered at MSU, call 03-5521 6868, email enquiry@msu.edu. my, or visit *www.msu.edu.my*.

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### Postgraduate

### **VC COLUMN Sustainable and resilient futures**

AS we leave the immediate impacts of Covid-19 behind us and gaze towards a much more hopeful horizon, we are ready to embrace the challenges to come. If 2020-2022 was about 'coping' with the emerging crisis of a pandemic, then the subsequent years are going to be about adaptation and mitigation.

As I have written before, emerging from this crisis gives us the opportunity to think afresh about how we live our lives and what strategies we can deploy to

Supercharge Your Future

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At the top of the agenda must be how we can build more sustainable and resilient futures. Recently, two examples in one week struck a chord with me. On the positive side, I witnessed again a host of amazing Malaysian industries demonstrating their commitment to the United Nations Sustainable Development Goals (UNSDGs).

I can see tangible progress as businesses take brave steps to plan for a more liveable future. The

Photo of participants at the opening ceremony of the 2nd Conference on Food Systems in Small Islands and Developing States.

recent signing of a memorandum of understanding between Petronas and Tenaga Nasional Berhad to advance efforts in support of Malaysia's aspirations to be a carbon-neutral nation by 2050, was one great example.

In the same week though, I learned that our dependence on single-use plastic rocketed during the pandemic, reversing the momentum of years-long battle to reduce plastic waste pollution. By August last year, there were eight million tons of pandemic-associated plastic waste generated globally, with more than 25,000 tons entering the ocean. We saw a steep decline in carbon emissions caused by our cars during the various periods of lockdown. To those of us back in the daily commute with bumper-tobumper traffic jams, this is but a distant memory.

In terms of the economic impact of Covid-19, those at the sharpish end of poverty felt the hardest effects. Governments stepped in and worked hard and fast during that period to ensure help was responsive, with record amounts spent on social assistance programmes. In the early days, there were disruptions to food supply and access which compounded hunger. The closure of food banks and

other sources of food aid due to

movement control orders also meant that people in need may have struggled to access support. With many more millions entering global poverty during this period, the longterm impact is one that we need to closely monitor and be responsive to.

The University of Nottingham Malaysia's research agenda is focused on many of these pressing issues. On Sept 7 to 9, we hosted the Food Systems in Small Islands and Developing States conference. This event brought together academics and professionals with the common goal of improving the resilience and adaptability of food systems in small islands and developing states in the Asia Pacific region. For these maritime nations, the relatively small size of their land and their economies give them a unique set of vulnerabilities that make their food systems particularly sensitive to shocks.

This conference gathered the growing multidisciplinary community of academics, policymakers, professionals and industrialists to build on the lessons learnt and advance the discussion on achieving food systems resilience in the face of turbulence.

Later in the year, we will host the 1st International Conference on Water and Environment for Sustainability on Dec 7 to 9 to

### **By ASSOC PROF DR JASON PANDYA-**WOOD

![](_page_3_Picture_19.jpeg)

coincide with Asiawater 2022, the region's leading international water and wastewater event in Asia.

Sustainable management of global water and environment issues is fundamental for the achievements of all the 17 UNSDGs that can positively impact our world and provide a better future for all, including the improvement to the quality of life.

To achieve this, we need strong cooperation and coordination amongst scientists, researchers, engineers, industry players, managers and policymakers. The conference will therefore provide the platform for leading experts to share ideas on how to address the world's pressing water and environmental issues.

Events without action though are not enough. That is why so much of our university's research is focused on sustainability and so too are our relationships with partners from outside the academy. In the coming year, we will be working hard to make sure this research continues to inform our teaching so we can inspire change in the next generations. But we will also use our research to contribute to public and policy debate and action. It is through events such as the ones above that this will be made more possible.

Assoc Prof Dr Jason Pandya-Wood is dean of the Faculty of Arts and Social Sciences at the University of Nottingham Malaysia.

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DATA science brings great benefit to all types of businesses. One of the examples of data science is predictive analytics in e-commerce which helps to evaluate each new customer, and every data collected will be used to make precise marketing campaigns.

The Malaysia Digital Economy Corporation affirms that big data analytics (BDA) is central to Malaysia's digital economy. It will boost other digital technologies, such as artificial intelligence (AI), the Internet of things (IoT) and advanced automation. As the BDA market in Malaysia is expected to grow in 2025, the scope and area of application for data scientists will increase in the coming years.

The Master in Data Science (MDS) at Universiti Kuala Lumpur -Malaysian Institute of Information Technology (UniKL-MIIT) is a dual degree with an international partner, La Rochelle University (LRUniv), from France. This programme is accredited by the Malaysian Qualifications Agency and French Ministry of Higher Education, Research and Innovation (MESRI)

which means the degrees are recognised internationally. Therefore, graduates will have more opportunities to continue their education or even find employment in Europe.

This can have a huge number of benefits, including improving skills, working with people from different cultures, expanding professional networks and attempting to increase one's employability. A sixmonth industry attachment or industry project is part of the programme aimed at ensuring students are equipped with industry and professional skills.

To suit current demand, this three-semester programme has been designed with multiple subareas including Big Data and Data Mining, Math and Statistics, Information Systems, Software Engineering and Entrepreneurship.

All courses are conducted on a modular basis at UniKL-MIIT campus in the heart of Kuala Lumpur. Students will have the privilege of learning from experts in the field of data science from both universities led by Assoc Prof Dr Jacque Morcos from LRUniv and Prof Shahrulniza Musa from UniKL-MIIT.

UniKL-MIIT and LRUniv have also established a joint ICT lab known as Universiti Kuala Lumpur – La Rochelle University – Joint ÎCT Laboratory (KLR-JIL) which focuses on data science models and knowledge, Image and content and System dynamics and adaptivity (IoT, Security, process mining). The lab aims at supporting and improving data science programmes and research carried out by both students and researchers.

Don't miss out on this opportunity and join UniKL now. Student intakes are carried out twice per year, in January and September.

### – İs Nurdatillah Hasim, Master in Data Science programme coordinator

■ For further details, contact the Marketing and Admission (Mesra) office, Raziana at 012-266 0774 or Ts Nurdatillah at 017-563 6371 or visit www.unikl.edu.my

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Other fields of study/research are available:

- Arts and Social Sciences
- Computer Science Built Environment
  - Engineering • ICT and Mathematics

Sciences and Health Sciences

- Business and Management
- Chinese Studies

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![](_page_3_Picture_47.jpeg)