Research and Postgraduate Studies
Contents

About IMU 02
Why Pursue Postgraduate Studies at IMU? 03

IMU’s Research - IRDI 05
Message from Vice President, Research 06
Our Researchers 08

School of Postgraduate Studies 13
Message from Dean, Postgraduate Studies 15
Postgraduate Programmes 17
- Research Programmes
- Taught Programmes

Research Partnerships and Student Mobility Programme 38
What Our Students Say... 39
Facilities 43
IMU Campuses 44
The International Medical University was established in 1992, and is Malaysia’s first and most established private healthcare university, with 23 years of dedicated focus in healthcare professional education. The University has an international reputation as a provider of high quality education, offering pre-university, undergraduate, postgraduate and continuing education courses.

Since 2004, IMU has been offering postgraduate programmes, their MSc and PhD by research. Under its School of Postgraduate Studies, the University offers two postgraduate programmes by research, namely Master of Science (MSc) in Medical and Health Sciences and Doctor of Philosophy (PhD) in Medical and Health Sciences. In addition, the School coordinates the taught Masters programmes, including MSc in Public Health, MSc in Analytical and Pharmaceutical Chemistry, MSc in Molecular Medicine, Master of Pharmacy Practice and MSc in Environmental Health. Despite the variety, the different programmes share the same philosophy – to produce thinking students who are lifelong learners.

Today the University is an institution offering high quality education, healthcare and research in partnership with some of the world’s most respected universities. IMU seeks to widen access to healthcare education, with courses that are both progressive and innovative. Its aim is to grow into a centre of healthcare educational excellence in the Asia-Pacific region.
Why Pursue Postgraduate Studies at IMU?

1. **An Established Private Healthcare University**
   IMU is Malaysia’s first and most established private medical and health sciences university with over 23 years of dedicated focus in healthcare education. IMU offers a range of postgraduate programmes and research in a number of subject areas related to health and healthcare solely by completion of a research-based thesis or a combination of coursework and completion of a research-based thesis.

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 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. **Partner to the World’s Prestigious Universities**
   IMU has established a strong global network of more than 30 partner institutions of higher learning. Postgraduate students in IMU may be jointly supervised by faculty from IMU and partner universities. The opportunity to conduct part of students’ research at the partner universities is under the University’s Student Mobility Programme.

4. **Research Partnerships**
   Students will benefit from the University’s research collaborations with various local and foreign institutions in areas such as cancer, bioactive molecules, nutrition and environmental health. Close links have also been established with local hospitals, especially Hospital Tuanku Ja’afar in clinical research.

5. **Close Interaction with Faculty**
   Students are able to interact closely with the Faculty due to an emphasis in small group learning. This enhances the teaching and learning activities for the student.

6. **Flexible Study Options**
   Students are also taught using blended learning, giving them more flexibility in their studies. Postgraduate students in IMU have flexible study options: full-time or part-time. This gives students the opportunity to fit their studies around their work, family and other commitments.
Research is an important activity at all universities as it complements and contributes to excellence in teaching and learning. The current vibrant research environment and culture in IMU has evolved through planned development of the elements needed for research management and oversight, research infrastructure, funding mechanism, and human capacity building in research.

The research in IMU is funded by external grants secured by our researchers as well as internal grants by IMU. In terms of research output, the number of publications from IMU has increased from 123 in 2008 to 314 in 2014.

As part of IMU’s strategic plan to realign and support its research activities, the Institute for Research, Development and Innovation (IRDI) was established in September 2012. The objectives are to explore funding opportunities, liaise with partners for contract research, provide support services to researchers such as advice on intellectual property, coordinate applications for internal and external research funding, commercialise and publicise IMU’s research output. As part of its commercialisation activities, the IRDI is exploring opportunities for creating a network of research and technology parks to better facilitate and progress translational research through industrial linkages.

More information on IRDI can be obtained from www.imu.edu.my/irdi

Four Centres of Excellence (CoE) essentially define IMU’s designated ‘thrust areas’ in medical and healthcare research.

**Centre for Bioactive Molecules and Drug Discovery**
The Centre’s research includes the discovery and synthesis of new bioactive molecules, screening for bioactivity, preclinical drug development, advanced drug delivery systems and mechanisms of drug action. In 2013, the Centre attracted funding of RM1,658,700 from sources such as Ministry of Higher Education (MOHE) and Ministry of Science, Technology and Innovation (MOSTI) for its work on bioactive molecules and drug discovery.

**Centre for Environmental and Population Health**
The Centre’s research covers aspects of environmental and population health, including water and air pollution, building-related illnesses, toxicology, and infectious and non-infectious diseases. The Centre involves clinicians, basic scientists and field researchers in a team effort to spearhead research in identified thrust areas in environmental and population health and secured external funding of RM1,412,540 in 2013 to support its research.

**Centre for Cancer and Stem Cell Research**
Focus areas include fundamental cancer biology, molecular cell signaling, cell-based therapy, stem cell biology, biomarkers and identification of drug targets. The Centre provides IMU researchers with the environment and impetus to advance our understanding of cancer biology. In 2013, research funding amounting to RM1,136,260 was obtained from external sources.

**Centre for Health Professional Education Research**
This Centre spearheads research related to the education of health professionals in Medicine, Pharmacy, Dentistry and Health Sciences. The thrust areas include problem-based learning (PBL), inter-professional learning, peer teaching, teaching excellence and scholarship, e-learning and workplace-based learning.

More information on IRDI can be obtained from www.imu.edu.my/irdi
Message from Vice President, Research

As the Vice President, Research, Prof Mak also is the Director of the Institute for Research, Development and Innovation (IRDI). IRDI has three key functions: School of Postgraduate Studies; Research; and Commercialisation and Support.

Research is an integral component of education that is given great emphasis in IMU. In accordance with the ASPIRE strategic plans of IMU, the Institute for Research, Development and Innovation (IRDI) was established on 18 September 2012 with the aim of restructuring its research organisation. A significant milestone of IRDI is the establishment of the four Centres of Excellence based on the identified thrust areas, namely 1) Centre for Cancer and Stem Cell Research, 2) Centre for Bioactive Molecules and Drug Discovery, 3) Centre for Environmental and Population Health and 4) Centre for Health Professional Education Research.

There has been a significant increase in the amount of external grants secured by our researchers. The amount of external grants has increased from RM62,280 in 2008 to RM3,398,193 in 2014. The major sources of external grants are from the Ministry of Education, (e.g. Fundamental Research Grant Scheme (FRGS) and Exploratory Research Grant Scheme (ERGS)) and Ministry of Science, Technology and Innovation (EScience). Our funding also comes from the industry and research foundations (e.g. Ranjeet Bhagwan Singh, MAKNA Cancer Research and Toray Science Foundation). While the external grants are an important funding source that supports postgraduate research, there has also been substantial support from internal grants, which amounted to RM1,752,695 in 2014. In terms of research output, the number of publications from IMU has increased from 123 in 2008 to 314 in 2014.

More than 90% of the papers published in 2013 were in indexed journals, with cumulative impact factor exceeding 370. Training of postgraduate students is essential in contributing to the progress of IMU research. In addition, we aim to engage our industrial partners to strengthen our research programme, especially in providing consultancies, specialised testing services, and joint research. With this development, we aspire to bring research at IMU to a higher level.

Prof Mak Joon Wah
Vice President, Research
MBBS (Sing), DAP&E, MPH (UM),
MD (Sing), FRCPHA, FAMM, FASc

About Prof Mak

Prof Mak Joon Wah obtained his MBBS from the University of Singapore in 1967, Masters of Public Health (MPH) from the University of Malaya in 1976, and Doctor of Medicine (MD) from University of Singapore in 1980. He obtained his Membership and the Fellowship of the Royal College of Pathologists in 1983 and 1995 respectively.

He was working at the Institute for Medical Research (IMR), Malaysia where he served in various capacities, culminating in his appointment as Director of the Institute in 1996. He served as a consultant in filariasis and malaria to the World Health Organization on numerous occasions and was the Director of the WHO Collaborating Centre for Lymphatic Filariasis based at the IMR. He was also the Dean of the SEAMEO-TROPMED Post-graduate School for Applied Parasitology and Entomology from 1991-1996. On his retirement from IMR he was appointed Professor in the Faculty of Medicine and Health Sciences at Universiti Putra Malaysia, where he served for three years before joining IMU in 2001.

Prof Mak Joon Wah was the President of Malaysian Society of Parasitology and Tropical Medicine in 1982 and the Founding Editor of its Journal, Tropical Biomedicine in 1985 and continued as its Editor until 1987. His fields of interest include tropical and parasitic diseases and he has published over 350 scientific papers. He was awarded the National Science Award in 1985 and the Merdeka Award for Outstanding Scholastic Achievement in 2011.
**Prof Victor Lim** is currently Vice President for Education and Professor of Pathology at the Faculty of Medicine and Health, IMU in Kuala Lumpur. Prior to this appointment he was the Executive Dean of the Faculty of Medicine and Health from 2004 – 2011. Before joining the IMU he was the Director of the Infectious Diseases Research Centre at the Institute for Medical Research in Kuala Lumpur by virtue of a secondment from Universiti Kebangsaan Malaysia where he was the Professor of Microbiology and Deputy Dean (Academic Affairs) at the Faculty of Medicine, Universiti Kebangsaan Malaysia.

He obtained his MBBS from the University of Malaya in 1974, MSc in Medical Microbiology from the University of London in 1978, and passed the Royal College of Pathologists examinations (MRCPath) in 1981. He was the President of the Western Pacific Society of Chemotherapy from 2004 - 2008, the Master of the Academy of Medicine of Malaysia from 2008 – 2011 and the President of the Malaysian Society for Infectious Diseases and Chemotherapy from 1999 – 2003. He is a Fellow of the Royal College of Pathologists, a Fellow of the Academy of Medicine of Malaysia, a Fellow of the Academy of Medicine of Singapore and a Fellow of the Academy of Sciences of Malaysia. He also held the position of Editor-in-Chief of the Malaysian Medical Journal from 1991 – 1998. He is a member of various governmental technical committees including the National Antibiotic and Infection Control Committee and the National Medical Testing Accreditation Committee. His fields of interest include antimicrobial chemotherapy and infectious diseases and has published and presented over 350 scientific papers. He is married to Dr Asma Omar, a Professor of Paediatrics at the University of Malaya. His leisure activities include doing mind games, jogging and looking for and partaking of good food.

**Prof Patricia Lim Kim Chooi** is currently Deputy Director, Commercialisation & Support under the Institute for Research, Development and Innovation (IRDI). She obtained her BSc degree in Genetics (1976), MSc (1984) and PhD (1992) from the University of Malaya. She started her research career at the Institute for Medical Research and has been actively involved in both lab-based and field research on the epidemiology, diagnosis, control and treatment of various infectious diseases and selected cancers for over 20 years. She contributed actively in training researchers on biotechnology in tropical medicine in collaboration with JICA from 1995-2000 and was joint coordinator for the medical biotechnology programme under the National Biotechnology Directorate from 1996-2004. She then worked in industry from 2004-2010 as Head of R&D in two biotechnology companies involved with diagnostics and vaccine research. She and her team received numerous awards for their diagnostic kits for malaria, tuberculosis and typhoid. Prof Patricia has also served as a WHO short term expert in malaria diagnosis in China and as a member of evaluation panels under MOSTI to evaluate research proposals as well as monitor progress of research projects in the biotechnology sector. Presently, she is a member of the Cluster Working Group on Human Capital, Malaysian Biotechnology Corporation and is the Editor-in-chief for the International e-Journal for Science, Medicine and Education (leSJME). She has published and presented over 100 scientific papers, and has supervised 5 postgraduate students.

**Prof Ammu K Radhakrishnan** is currently Professor of Pathology, in at the Faculty of Medicine and Health, IMU in Kuala Lumpur. Prior to this appointment, she was Head of the Pathology Division of the Faculty of Medicine and Health (Feb 2009 to 31 Mac 2012). In addition to teaching, she is also actively involved in research. Currently she has several postgraduate students working with her. Her research areas include tumour immunology in the area of immune regulation and modulations in breast cancer as well as developing immune based therapeutics and identifying novel natural products with anti-cancer activities. She has several publications in ISI-indexed and peer-reviewed journals. She has presented papers at many scientific meetings. Currently, she is a Fellow of the Cambridge Commonwealth Trust and the Cambridge Philosophical Society. She is also a member of the British Society of Immunology, the Cambridge Society, Oxbridge Society of Malaysia and others.
Prof Stephen Periathamby Ambu is currently attached to the School of Postgraduate Studies and Department of Pathology at IMU. Prof Ambu’s specific areas of teaching are in Parasitology and Environmental Health. He has done research on parasitology, environmental health and ecology of small mammals and reptiles in relation to public health and has several publications and presentations to his credit in local and international journals. Currently there are a number of postgraduate students doing their MSc and PhD under his supervision. He is the immediate Past President/Life Member of the Malaysian Society of Parasitology and Tropical Medicine. He is also a Fellow of the Royal Society of Tropical Medicine and Hygiene (United Kingdom) and the Malaysian Scientific Association. He has also been a reviewer for several journals. He is on the Editorial Board of the Tropical Biomedicine. He has served on National Committees in air pollution and was involved in the preparation of Malaysia’s Initial National Communication to the United Nations Framework Convention on Climate Change, Ministry of Science, Technology and the Environment. He has also contributed his expertise to the World Health Organisation as a Temporary Advisor to several environmental programmes conducted in the Western Pacific Region. He was an Adjunct Associate Professor in the Faculty of Environment and Agriculture, University of Western Sydney, Australia, from 2001 – 2004 and carried out many research projects in collaboration with the faculty members. In 1993, he received the Malaysian Society of Parasitology and Tropical Medicine Medal and in 2005 the Sandosham Medal. He was also awarded the AMN award by the Federal Government in 2000.

Prof Winnie Chee Siew Swee is currently Acting Dean, School of Health Sciences, IMU and holds a Conjoint Faculty position with the University of Newcastle, Australia. She received her BSc Dietetics with First Class Honours from Universiti Kebangsaan Malaysia and later pursued her Masters and PhD. She has 18 years of experience in nutrition and dietetics education, research and practice. Her specific areas of research are in diabetes nutrition, renal nutrition and bone health. Prof Winnie Chee has received national and international research grants and published in peer-reviewed journals, proceedings and contributed to book chapters on nutrition. She has also supervised and served as external examiners for postgraduate students at the Masters and PhD level. Prof Winnie is a member of several working groups for practice guidelines for diabetes, renal and osteoporosis as well as the dietary guidelines for adults and children. She is also a prominent speaker in many local and international scientific conferences.

Prof Vishna Devi V Nadarajah is currently Professor and Dean of Teaching and Learning at IMU. She obtained her PhD from the University of Cambridge and was awarded national and international research grants for her research on Bacillus thuringiensis proteins and biomarkers for neuromuscular disorders. She has supervised, published and presented 54 research papers related to biomedical sciences and medical education. Prof Vishna was an elected Committee Member of Chevening Alumni Malaysia, panel member for ‘Anugerah Akademik Negara’ and the safety committee for Standards Malaysia on microbial research. In 2012 she was awarded the Malaysian Women's Weekly, ‘Great Women of Our Times Award’ for the Science and Technology Category. She has been continuously involved in curriculum development, having played a key role in the development of Problem Based Learning, Assessment Strategies and new academic programmes in IMU. She has been providing consultancies and training related to Health Professionals Education both nationally and regionally (Vietnam, Indonesia, Myanmar and India).
Prof Esha Das Gupta is currently Professor of Internal Medicine, in School of Medicine IMU and Head of Division of Medicine. Prior to this appointment, she was Head of the Department of Internal Medicine (Nov 2010 to Nov 2012). In addition to teaching, she is also actively involved in research. Currently she has a few postgraduate students working with her. Her research areas include Rheumatological conditions like Rheumatoid arthritis, Lupus Erythematosus, Gout etc including their immunology and gene polymorphism etc. She has several publications in ISI-indexed and peer-reviewed journals. She has presented papers at many scientific meetings and has been invited speaker in international and national scientific conferences. Currently, she is a Fellow of the Royal College of Physicians of London and Fellow of the Royal College of Physicians of Ireland as well. She is a member of Academy of Medicine. She is also a Member of Malaysian Medical Association, Arthritis Foundation, and Committee Member of Malaysian Lupus Association. She is in the Editorial Board of Indian Medical Journal.

A/Prof Shar Mariam is currently Associate Professor at the Faculty of Medicine and Health, IMU. She joined the Human Biology Department of IMU soon after being conferred her doctorate in 2000. Dr Shar has been teaching Physiology in Medicine, Pharmacy, Dentistry and other health sciences programmes ever since. Her passion in research has always been in the field of anticancer studies of natural products. She started her research looking into the effects of dietary phytochemicals in reducing X-irradiation-induced mutation; followed by anticancer studies on various natural products against numerous cancer cell lines. Most of her publications come from her antileukemic studies. Currently A/Prof Shar has expanded her interest on protecting human skin cells from the harmful effects of UVB, which has won her international awards from the Skin Cancer College of Australia & New Zealand (Dr Martin Baker Memorial Prize) in 2011.

Dr Ivan KS Yap is currently Senior Lecturer at the Department of Life Sciences in IMU. He obtained his BSc (Honours) degree in Pharmaceutical Sciences from University of Greenwich (UK) in 2001 and PhD in Chemistry from Imperial College London (UK) under the Overseas Research Scholarship scheme and Pfizer scholarship. He undertook his post-doctoral research training in the Department of Surgery and Cancer at Imperial College London, UK from 2005 – 2010 specialising in metabolomics. Dr Ivan Yap has been actively involved in metabolomics research for more than 10 years. His research interest includes application of metabolomics in infectious disease, population health and understanding host-microbiome interactions through systems biology approaches. Dr Ivan Yap was appointed as Honorary Research Fellow of Imperial College London in 2012 and Associate Fellow at UiTM (Malaysia) in 2013. He is a member of the Royal Society of Chemistry (UK) and the British Society for Parasitology. He has published 22 scientific papers with a H-index of 16 (ISI Web of Science as of Jan 2015), and has supervised several postgraduate research students.
Dr Chong Chun Wie obtained his PhD from University of Malaya, Malaysia. He had been nominated as UM Brightspark scholar for his outstanding performance during his PhD candidature. He had been posted as Post-Doctoral Research Fellow in National Antarctic Research Center, Malaysia following his PhD on 2011, and is currently serving as faculty member in Department of Life Sciences, International Medical University. He has published 10 scientific papers with a H-index of 5 (ISI Web of Science as of Jan 2015).

He started his research career on Polar soil ecology in response to climate and anthropogenic impact. Moving on from soil, he ventured into human gut microbiome research and have been actively involved in the characterisation of human (infant and indigenous population), laboratory animals (mice) and farm animals (swine and boiler chicken) gut microfloras. Among his special interest include the application of multivariate statistics common to soil ecology on human and animals study to provide additional dimension in data interpretation.

Dr Hazwanie bt Hashim is currently Lecturer in School of Pharmacy, IMU, Bukit Jalil. She obtained her Bachelor of Biohealth Science degree in University of Malaya (UM) in 2006, and further her PhD on a project entitled, “The Importance of Integrated Pharmacogenomics-Metabolomics Approaches in Personalising Medicine for Colorectal Cancer Treated with 5-fluorouracil” in Universiti Teknologi MARA (2012). The integration of pharmacogenomics and metabolomics in personalising medicine intended to profile both the genetics and metabolomics markers that could be useful in the clinical monitoring of patients’ responses towards 5-FU and its disease. She has received several international and local awards including INPEX US, BioMalaysia Awards (2008) and IID UiTM (2008). Currently, Dr Hazwanie and her team are broadly interested in identifying underlying genetic factors as well as clinical characteristic among women diagnosed with polycystic ovary syndrome (PCOS). The research interest including exploring the association of predisposing alleles in the affected population with clinical phenotypes of PCOS. The research is well supported by the strong research culture and infrastructure at the IMU Research Centre.

He started his research career on Polar soil ecology in response to climate and anthropogenic impact. Moving on from soil, he ventured into human gut microbiome research and have been actively involved in the characterisation of human (infant and indigenous population), laboratory animals (mice) and farm animals (swine and boiler chicken) gut microfloras. Among his special interest include the application of multivariate statistics common to soil ecology on human and animals study to provide additional dimension in data interpretation.
School of Postgraduate Studies

The School of Postgraduate Studies supports, administers and coordinates the training of higher degrees (MSc and PhD) by research and taught postgraduate programmes within the Faculty of Medicine and Health. As one of the five Schools in the Faculty, the School of Postgraduate Studies strives to ensure that all these activities are carried out to the highest standards.

This School aims to enhance the quality of all aspects of the postgraduate and postdoctoral experience, both academic and social. The School continually attracts some of the best academics in the world, and many have become leaders in their fields. The School intends to produce graduates with attributes that are sought by a wide range of employers, facilitates the development of research amongst its staff, strengthens linkages with other Research Institutes, and facilitates research-led approaches to teaching.
Message from Dean, Postgraduate Studies

At the School of Postgraduate Studies, you can go on to obtain a Master’s or Doctorate Degree in any of our seven programmes.

We provide a conducive atmosphere for our students, as well as experienced academics who facilitates their learning and supervise them as they go through their programmes.

The University continuously updates its facilities to keep pace with new methods of teaching to provide the best to our students. Postgraduate students are a vital part of a research intensive university. They contribute to the intellectual vitality and vibrancy of the institutions as they learn, grow and develop. Our students have consistently won a number of grants and fellowships every year. These give them the opportunity to travel abroad to present their research findings at scientific conferences.

Prof Chu Wan Loy
Dean, School of Postgraduate Studies
BSc (Hons) (UKM), PhD (UM)

About Prof Chu

Prof Chu Wan Loy obtained his BSc degree in Biochemistry from Universiti Kebangsaan Malaysia in 1988, and PhD from the University of Malaya in 1997. He undertook his post-doctoral training at the Marine Biotechnology Institute in Kamaishi, Japan from 1997 – 1998 with the support of a scholarship from the Japan International Cooperation Agency (JICA). Prof Chu has been actively involved in Algal Biotechnology research for more than 20 years. As an active member of the Malaysian Antarctic Research Programme (MARP), he has gone on three expeditions to the Antarctic and Arctic for the collection of polar algae. His research interests cover many aspects of algal biotechnology, ranging from bioactive compounds and nutraceuticals from algae, algae for bioremediation and toxicity testing, algae for biofuels to stress adaptation and phylogenetics of algae. Prof Chu was the Honorary Secretary of the Asian Pacific Phycological Association (APPA) from 2005 – 2011, and Honorary Secretary of the Asian Pacific Society for Applied Phycology (APSAP) from 2003 – 2006. Presently, he is an Associate of the Academy of Sciences Malaysia, and Member of the Editorial Board of Malaysian Journal of Science. He has published and presented over 120 scientific papers, and has supervised many postgraduate students.
Alongside its undergraduate medical and health sciences programmes, the University offers a growing range of postgraduate qualifications at masters and doctorate level. Some are completed solely by completion of a research-based thesis (MSc or PhD in Medical and Health Sciences) and some are taught postgraduate programmes.

These include MSc in Public Health, MSc in Analytical and Pharmaceutical Chemistry, MSc in Molecular Medicine, Master of Pharmacy Practice and MSc in Environmental Health. Taught postgraduate programmes can be full-time or part-time and involve a combination of coursework and completion of a research-based thesis. Duration of these programmes will vary in length depending on the qualification and the mode of study.

IMU’s postgraduate programmes offer a learning experience of the highest quality that will further advance your knowledge in your chosen career. Whether you choose a taught postgraduate programme, or undertake a research degree, you will be supported and supervised by staff who are experts in their field. As majority of the academic staff are actively engaged in their own research, you will be at the heart of a network of researchers working in a range of medical and scientific disciplines and making a real impact on the health and well-being of our society.

You will be part of a vibrant university community that facilitates and coordinates its research via its Institute for Research, Development and Innovation (IRDI).
Research Programmes
## Programme Summary

<table>
<thead>
<tr>
<th>Degree</th>
<th>MSc in Medical and Health Sciences</th>
<th>PhD in Medical and Health Sciences</th>
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<tbody>
<tr>
<td><strong>Duration</strong></td>
<td>1-4 years (full-time)</td>
<td>2-6 years (full-time)</td>
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<td></td>
<td>2-6 years (part-time)</td>
<td>4-8 years (part-time)</td>
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<tr>
<td><strong>Commencement</strong></td>
<td>Throughout the year</td>
<td></td>
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<tr>
<td><strong>Fees</strong></td>
<td>Malaysian student: RM5,250 per semester</td>
<td>Malaysian student: RM6,850 per semester</td>
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<tr>
<td></td>
<td>International Student: RM10,750 per semester</td>
<td>International student: RM14,050 per semester</td>
</tr>
<tr>
<td><strong>Entry Requirements</strong></td>
<td>A bachelor’s degree with minimum cGPA of 2.75 or equivalent, as accepted by the HEP Senate; or</td>
<td>A masters degree accepted by the HEP Senate; or</td>
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<td></td>
<td>A bachelor’s degree or equivalent with minimum cGPA of 2.50 and not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or</td>
<td>Other qualifications equivalent to a masters degree that are accepted by the HEP Senate.</td>
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<tr>
<td></td>
<td>A bachelor’s degree or equivalent not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.</td>
<td>Note:</td>
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<tr>
<td></td>
<td></td>
<td>i. There shall be no direct entry from bachelor’s degree level to doctoral degree level.</td>
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<td></td>
<td></td>
<td>ii. Candidates registered for Master’s Degree programmes with at least CGPA 3.67 at bachelor’s degree level may apply to convert their candidancy to the doctoral degree programmes subject to:</td>
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<td></td>
<td></td>
<td>a) having shown competency and capability in conducting research at Doctoral Degree level.</td>
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<td></td>
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<td>b) approval by the HEP Senate.</td>
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<tr>
<td><strong>English Language Requirements</strong></td>
<td>All students are normally required to provide written evidence of their ability in the English Language in order to study in IMU. Generally the standard English Proficiency requirements are usually overall band score of IELTS 6.5 or TOEFL 550 (PBT) or 79 (IBT) or MUET band 4.</td>
<td>All students are normally required to provide written evidence of their ability in the English Language in order to study in IMU. Generally, the standard English Proficiency requirements are usually overall band score of IELTS 6.5 or TOEFL 550 (PBT) or 79 (IBT) or MUET band 4.</td>
</tr>
<tr>
<td><strong>Assessment</strong></td>
<td>Both programmes are research-based and degrees will be awarded by IMU on successful completion of a thesis. Examination is by assessment of the thesis, and includes an oral examination of the contained research.</td>
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</table>
Prof Mak Joon Wah
Vice President, Research

“The IMU postgraduate programme leading to the MSc in the fields of Medical Sciences and Community Health and PhD in Medical and Health Sciences is primarily obtained through research. Research areas include among others, bioactive molecules, vaccine and drug development, therapeutics, pharmaceutics, cellular mechanisms and molecular basis of pathogenesis, clinical research, community based health issues, nutrition and dietetics, behavioural studies, and medical education. Supervisors are highly experienced faculty members with impressive track record in research and international recognition.”

MSc/PhD in Medical and Health Sciences by Research

Postgraduate research forms a major part of IMU’s activities in its role as a leader in healthcare provision and innovation. Working for a research higher degree gives students the opportunity to acquire in-depth, specialised knowledge and to apply leading-edge techniques and methodologies. The University prides itself on the facilities and support it provides to research students and on the calibre and dedication of its academic, clinical and technical staff. IMU researchers produced 216 publication in 2013, of which 206 (95.4%) were in scientific journals and 10 were books or book chapters. Of the published papers, 188 (91.3%) were in indexed journals. Of the indexed papers, 40 were in Tier 1, 54 in Tier 2, 39 in Tier 3 and 10 in Tier 4 journals. The total impact factor (IF) obtained for the indexed papers was 396.860. The total H-index value, an index to measure both the productivity and impact of the published work of a scientist or scholar, obtained was 5077.

The University allocates more than RM1 million internal funds for research every year. Alongside this commitment, external funding has increased dramatically in recent years since IMU was designated by the Ministry of Science, Technology and Innovation (MOSTI) as a private university that may apply directly for and receive research funds. Our researchers have subsequently received funding for collaborative research projects in nasopharyngeal carcinoma, colorectal carcinoma, breast cancer, infectious diseases and environmental health. In 2013, IMU received 18 externally sponsored projects amounting to RM3,160,240 from external funding agencies include grants from the Ministry of Higher Education (FRGS and ERGS) and Ministry of Science, Technology and Innovation (EScience Fund).

The areas of research expertise of the IMU faculty are as follows:
- Human and Medical Genetics
- Biochemistry
- Cancer/Oncology
- Molecular Biology/Biotechnology
- Microbiology
- Clinical Research
- Infectious Diseases
- Psychology
- Pharmaceutical Sciences
- Chronic Diseases
- Community Health
- Building-Related Illnesses
- Environmental Health

The selection of supervisor(s) will depend very much on the research area and be based on mutual agreement between both parties. The principal supervisor must be engaged within IMU whereas a co-supervisor can be from any established institution. All supervisors are subject to the credentialling guidelines of IMU.
Taught Programmes
## Programme Summary

<table>
<thead>
<tr>
<th>Degree</th>
<th>MSc in Analytical and Pharmaceutical Chemistry</th>
<th>MSc in Molecular Medicine</th>
<th>MSc in Public Health</th>
<th>Master in Pharmacy Practice</th>
<th>MSc in Environmental Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>1½ years – 6 years</td>
<td>1½ years – 4 years</td>
<td>1½ years (full time)</td>
<td>3 years (part-time)</td>
<td>1½ years – 4 years</td>
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<tr>
<td>Commencement</td>
<td>March and September</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Fee</td>
<td>Malaysian student: RM43,000 per programme</td>
<td>Malaysian student: RM40,000 per programme</td>
<td>Malaysian student: RM44,000 per programme</td>
<td>Malaysian student: RM40,000 per programme</td>
<td>Malaysian student: RM41,000 per programme (depending on specialisation chosen)</td>
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<td></td>
<td>International student: RM57,500 per programme</td>
<td>International student: RM53,650 per programme</td>
<td>International student: RM58,300 per programme</td>
<td>International student: RM53,650 per programme</td>
<td>International student: RM 55,650 per programme (depending on specialisation chosen)</td>
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<td>Entry Requirements</td>
<td>A bachelor’s degree in Chemistry, Pharmacy with minimum cGPA of 2.75 or equivalent, as accepted by the HEP Senate; or A bachelor’s degree or equivalent with minimum cGPA of 2.50 and not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or A bachelor’s degree or equivalent not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.</td>
<td>A bachelor’s degree with minimum cGPA of 2.50 or equivalent, as accepted by the HEP Senate; or A bachelor’s degree or equivalent with minimum cGPA of 2.50 and not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or A bachelor’s degree or equivalent not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.</td>
<td>A bachelor’s degree with minimum cGPA of 2.50 or equivalent, as accepted by the HEP Senate; or A bachelor’s degree or equivalent not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.</td>
<td>Bachelor’s degree or equivalent with minimum cGPA of 2.75, as accepted by the HEP Senate; or Bachelor’s degree or equivalent with minimum cGPA of 2.50 and not meeting cGPA of 2.75, can be accepted subject to rigorous internal assessment; or Bachelor’s degree or equivalent not meeting cGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.</td>
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<tr>
<td>English Language Requirements</td>
<td>All students are normally required to provide written evidence of their ability in the English Language in order to study in IMU. Generally, the standard English Proficiency requirements are usually overall band score of IELTS 6.5 or TOEFL 550 (PBT) or 79 (IBT) or MUET band 4.</td>
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<tr>
<td>Assessment</td>
<td>Continuous assessment throughout the degree via project work, critical reviews, practical reports, assignments and oral presentations during the first two semesters. There are no written examinations. A research dissertation is assessed in Semester 3.</td>
<td>Continuous throughout the degree via project reports, critical reviews, assignments, portfolios and oral presentations during the first two Semesters. There are no end of semester examinations. A research dissertation is assessed in Semester 3.</td>
<td>Assignments and assessments for both part-time and full-time students. Assessment is through class tests, practical, reports, essays, problem-based learning, project work, dissertation and written examination. For the award of the degree of MSc in Public Health, students must successfully complete all 12 modules.</td>
<td>Continuous throughout the degree via project reports, critical reviews, assignments, portfolios and oral presentations during the first two Semesters. There are no end of semester examinations. A research dissertation is assessed in Semester 3.</td>
<td>The components of assessment consist of continuous assessments, written final examination and the research thesis.</td>
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</table>

*Students are also required to pay registration fee, refundable caution deposit and student association fee.*
MSc in Public Health
Public health professionals today are faced with both old and new public health challenges. They range from infectious diseases such as influenza and the HIV/AIDS pandemic, chronic disease epidemics, cancer and obesity. The challenges also include the health of our increasingly elderly populations, high-risk behaviors that endanger our health such as smoking and substance abuse, the safety of our water and our food, as well as the threats of natural and man-made disaster including bioterrorism. The IMU MSc in Public Health prepares one to face these challenges through multidisciplinary approaches that apply the latest scientific knowledge, common sense and team work to solve important health problems. Students in the programme will obtain a population-based perspective on health besides a curriculum focused on the core disciplines of epidemiology, biostatistics, management sciences and the environmental, biological, behavioral and social factors that influence the health of populations and communities.”

Prof Hematram Yadav
Programme Director
MBBS (Kerala), MPH (UM), MBA (BU), MRSH (UK), FAMM

The MSc in Public Health

Public Health is the art and science of preventing disease, prolonging life and promoting health. Public Health is not only concerned with maintenance of health by reducing or eliminating disease risks and environmental health hazards, improving social conditions, and encouraging healthy behaviours and lifestyles, it also encompasses the distribution and optimal management of healthcare services. The programme will provide students from a wide range of health and related professional backgrounds with the knowledge and skills in public health sciences which will make them effective contributors in their field of healthcare.

Philosophy
The MSc Public Health is based on the World Health Organisation’s principles of Health for All; they are: • equity • intersectorial collaboration • health promotion and disease prevention • international cooperation • community participation

Who will benefit from the programme?
The MSc Public Health programme is suited for those who want to advance in their careers in a related field. They are: • Medical doctors • Nurses • Health officers • Environmental health officers • Health service managers • Hospital administrators • Nutritionists • Health education officers • Environmental and health engineers • Pharmacists

COURSE STRUCTURE
The programme consists of 2 semesters of theory followed by a third semester of dissertation writing and electives. The part-time format offers modules that are available during weekends in a classroom setting to cater to working students.

Semesters 1 and 2 each comprises of twelve weeks of active learning followed by one week of assessment.

Semester 3 is scheduled for carrying out a research project and preparation of a dissertation.

The programme is divided into 12 modules as follows:

Semester 1
• Methods in Epidemiology
• Biostatistics
• Research Methodology
• Environmental Health
• Occupational Health

Semester 2
• Population Health
• Health Management and Economics
• Health Promotion
• Medical Sociology
• Public Health Practice

Semester 3
• Dissertation
• Electives (2)

The programme is taught in close collaboration with the Ministry of Health, Kuala Lumpur City Council, non-governmental organisations and other public health related institutions. Teaching and learning methods vary in line with the objectives of the course and include didactic lectures, guided and independent group exercises, practicals, seminars, workshops and problem-based self-directed learning. Field visits with hands-on experience in observing the public health challenges that are currently faced by the community are an integral part of the course. E-learning approaches are used extensively and include web based courses, online simulation and virtual mentoring.
Prof John T Arokiasamy obtained his MBBS from the Christian Medical College, Vellore, Madras University in 1971 and his MPH from the University of Malaya in 1976. Subsequently he graduated from Harvard University in 1977 with the MSc in Epidemiology (Harvard University) in 1977. Prior to joining IMU, Prof Arokiasamy had served in the Ministry of Health Malaysia and the Ministry of Defence Malaysia before joining the University of Malaya, where he served for 28 years training undergraduate students and also postgraduate public health students. Subsequently he spent 7 years in Melaka Manipal Medical College, where he served in various capacities including as Dean and Chief Executive. Prof Arokiasamy’s specific areas of teaching are in Epidemiology, Medical Statistics and Research Methods. He has done research on the care of the elderly and non-communicable disease epidemiology and has several publications to his credit in local and international journals.

He is the current Immediate Past President of the Asia Pacific Association of Medical Journal Editors (APAME) having served as the President from 2010 to 2012. He has also been a reviewer for several Medical Journals such as Tropical Biomedicine, Preventive Medicine, International Journal of Medical Informatics, Asia Pacific Journal of Public Health and the Medical Journal of Malaysia. He was the former Editor-in-Chief of the latter, and served on its Editorial Board for 23 years. Previously he had also served as President of the Asia Pacific Academic Consortium of Public Health. He has also contributed his expertise to the World Health Organisation as a Short Term Consultant and as Temporary Advisor to several countries in the Western Pacific Region. In 2002, he received the Malaysian Medical Association Outstanding Public and Healthcare Services Award. He is currently Professor and Head of Department of Community Medicine in IMU.

Dr Ranjit De Alwis is currently a Senior Lecturer in Community Medicine in the School of Medicine, IMU. He obtained his first degree in Medicine from the University of Ceylon and later pursued his MSc in Occupational Medicine from the London School of Hygiene and Tropical Medicine and the Diploma in Industrial Health from the University of London. He was awarded a Doctorate in Medicine from the Post Graduate Institute of Medicine, University of Colombo for his research theses on respiratory disease among workers exposed to tea dust. He has served in many rural hospitals in Sri Lanka after which he took up a post as a specialist research officer in the Division of Occupational Hygiene in Sri Lanka and later was appointed as the Head. He has served as a short term consultant in occupational health for the International Labour Organisation. He has extensive experience in teaching postgraduate students in Sri Lanka. He was elected as a Fellow of the College of Community Physicians, Sri Lanka in recognition of his long and dedicated service in the field of community medicine.

A/Prof Verasingam Kumarasamy is currently the Associate Professor of Community Medicine at IMU. Before joining IMU, he was the Director and Epidemiologist of the National Public Health Laboratory Sungai Buloh, Communicable Diseases Division, and Ministry of Health. He obtained his BSc in Biochemistry from the University of Malaya in 1973, and MBBS from Grant Medical College University of Bombay in 1980 and the Master of Public of Health from the University of Malaya in 1990. A/Prof Verasingam was appointed as a representative from Malaysia in developing Early Warning Systems for Infectious Disease in the ASEAN region in the Asian Secretariat based in Jakarta , from 2003-2006. He was instrumental in developing and implementing the National Dengue Serotype Surveillance in 2004. He was appointed as Chief of Field Operations during the Japanese Encephalitis/Nipah Virus outbreak in 1999 in Port Dickson to coordinate all control activities on the ground. During the many years in government service he has gained vast hands on experience in public health management and in the prevention and control of infectious disease outbreaks, notably cholera, typhoid, malaria, dengue and Japanese encephalitis. He has written many protocols and developed guidelines on the above. A/ Prof Verasingam has also published and presented numerous scientific papers over the years. He was awarded the Excellent Service Awards in 1993 and 1999. He also received the Vocational Award for by the Rotary International in 2000 for his meritorious and outstanding service to the community. He was also conferred the title Ahli Mangku Negara by the Yang di Pertuan Agong in the year 2000 and the Excellent Community Service Medal by the Yang di Pertua Negeri , Negeri Sembilan in 2004. His field of interest includes health management, vector borne diseases, outbreak control and health care delivery to marginalised populations.
MSc in Analytical and Pharmaceutical Chemistry
The IMU’s MSc in Analytical and Pharmaceutical Chemistry programme is suitable for graduates with a degree in Chemistry, Pharmacy or related disciplines and is targeted at both recent graduates and those already working in the pharmaceutical or chemical industries. The course provides graduates with an opportunity to enhance their knowledge and understanding of advanced analytical chemistry; spectroscopy and separation techniques; research methodology and scientific writing skills; drug discovery, design and development; natural products; quality management and the regulatory environment; pharmaceutical microbiology; and product commercialisation. One of the modules on the principles and practices of green chemistry instils in students a sense of responsibility towards the environment.

The course comprises core modules, selectives, a research component and laboratory sessions that provide hands-on experience with analytical instrumentation for characterisation, identification and quantification of pharmaceuticals. Upon completion of the course, students possess comprehensive knowledge and technical competencies that are necessary for them to work effectively in a research and/or analytical division of a pharmaceutical or chemical company. The research component involves in-depth investigation that would contribute for the advancement of chemical and pharmaceutical industries and introduces students to the processes of critical thinking and lifelong learning.

### COURSE STRUCTURE

The programme consists of 21 credits of course work and 22 credits of research project. Teaching and learning methods include lectures, tutorials, laboratory sessions, workshops, case studies, critical reviews and seminars, which are held on Saturdays.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
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</table>
| • Spectroscopy I & II  
• Separation Techniques  
• Research Methodology and Scientific Writing | • Principles and Practices of Green Chemistry  
• Natural Products  
• Research Project  
• Selectives  
1) Recent Developments in Pharmaceutical Sciences  
2) Drug Discovery, Design and Development  
3) Pharmaceutical Microbiology  
4) Bench to Market  
5) Quality Management and Regulatory Systems | Research Project |

“**The IMU’s Master of Science in Analytical and Pharmaceutical Chemistry is geared for those who want to advance their careers in chemical or pharmaceutical industries and those entering the field from related areas. Our modular programme is designed to fit in with full-time employment to help you balance work commitments with learning. Integral research project gives an opportunity to explore a research area, which can open the door to many careers. The project work provides you with substantial experience of working independently and communicating your research effectively and efficiently in the form of dissertation and publication. The programme faculty bring years of experience in academics, industry and research to facilitate an interactive learning environment. Upon successful completion of the course, you will have developed a greater depth of knowledge and advanced skills that are essential for R&D, manufacturing and analysis of pharmaceuticals.”**

Dr Sreenivasa Rao Sagineedu
Programme Director  
BPharm (AU), MPharm (AU), PhD (UPM), MRSC (UK)

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Dr Sreenivasa Rao Sagineedu is a lecturer in pharmaceutical chemistry. He obtained his BPharm and MPharm degrees from Andhra University, India, trained at TTK Pharma Limited, India and worked as a research chemist with Valfred Pharmaceuticals, India. He received his PhD in medicinal chemistry from the Universiti Putra Malaysia and has many years’ experience in isolation, synthesis and evaluation of bioactive molecules using HPLC, LCM and NMR spectroscopy. His current research interests include small molecule drug discovery, metabolomics, and organic spectroscopy. He serves as a reviewer for prestigious international chemistry journals and is an active member of the European Association for Cancer Research (EACR).
Our Faculty

**Prof Mallikarjuna Rao Pichika** is the Head of the Pharmaceutical Chemistry Department. He obtained his first degree in Pharmacy and PhD in Pharmaceutical Chemistry from Andhra University, India. After a short period in the Indian pharmaceutical industry, he entered the academic sector. In Ethiopia, he assisted Gondar University to establish an undergraduate pharmacy curriculum. In 2003, A/Prof Mallikarjuna Rao Pichika returned to India and established Annamacharya College of Pharmacy. He joined IMU in 2005 and played a noteworthy role in the development and delivery of the BPharm, BSc (Hons) Pharmaceutical Chemistry, BSc (Hons) Medical Biotechnology and MSc in Analytical and Pharmaceutical Chemistry curricula. His research experience is in the development and commercialisation of natural products. Since joining IMU, he has initiated a number of research projects, mostly investigating vanilloids as potential therapeutic agents for inflammatory disorders. To date, he has published 30 original research papers and 3 patents, and has supervised many undergraduate students and postgraduate students.

**A/Prof Kang Yew Beng** is currently the IMU Associate Director of E-Learning and is an Associate Professor in the Department of Pharmaceutical Chemistry. A/Prof Kang obtained his undergraduate degree in Chemistry and graduated with honours in the area of Organic Chemistry from the University of Western Australia in 1990 and completed his PhD in the area of Inorganic Chemistry at the Australian National University in 1994. He is a member of the American Chemical Society and interested in synthetic preparative chemistry of both organic and inorganic compounds. Before joining IMU, A/Prof Kang spent almost seven years in the Malaysian Palm Oil Board (MPOB). During this period, he held the role of Senior Research Officer in the Surfactants and the Specialty Synthesis group.

**A/Prof Ng Chew Hee** is an Associate Professor in the School of Pharmacy with extensive experience in teaching a variety of chemistry subjects. A/Prof Ng Chew Hee is a member of the Malaysian Institute of Chemistry and a registered chemist under the Malaysian Chemistry Act. His research interests include Coordination Chemistry, Biological Chemistry, Medicinal Chemistry, and Anticancer Metallodrugs. He has secured funding from MOSTI, MOHE and Academy Science Malaysia, and has trained many MSc and PhD students.

**Dr Ooi Ing Hong** is a member of the American Chemical Society (ACS) and Royal Society of Chemistry (RSC). He teaches various chemistry related modules for the BPharm and BSc (Hons) Pharmaceutical Chemistry programmes as well. He holds one United States patent and several publications. His research interest encompasses synthesis of biocompatible, biodegradable polymers as nanocarriers for targeted drug delivery; thermoresponsive hydrogels; dental restorative composites; and medicinal chemistry. He is the principal investigator for an e-Science (MOSTI) and a FRGS (MOHE) projects and the co-investigator for several other e-Science projects.
MSc in Molecular Medicine
Course Structure

Semester 1
- Molecular Medicine
- Immunology and Infection
- Molecular Basis of Diseases I
- Selectives:
  1) Bench to Market
  2) Bioinformatics
  3) Drug Discovery, Design and Development

Semester 2
- Molecular Basis of Diseases II
- Research Methodology and Scientific Writing
- Selectives:
  1) Clinical Research I
  2) Clinical Research II
  3) Laboratory Management
  4) Stem Cell Technology and Therapeutics

Semester 3
- Research Project

Teaching and learning activities include lectures, case studies, workshops, seminars, presentation, assignments, discussions and tutorials.
Our Faculty

Prof Yeoh Peng Nam is currently Dean, School of Pharmacy and a registered pharmacist with the Malaysian Pharmacy Board with training in drug testing and developing a Drug-free Workplace. Prior to joining IMU, she was Professor and Head of the Department of Pharmacology, Faculty of Medicine, University of Malaya (UM) before becoming the Head and Professor of the new Department of Pharmacy, UM in 1995. She obtained a Certificate as Doping Control Officer, Ministry of Health, Malaysia. Her areas of research include neurotransmitters in experimental seizures and pharmacological actions of herbal products. Previously she was Malaysia’s representative to the International Brain Research Organization (IBRO). At the national level, she is a member of the Pharmacy Board, Ministry of Health (MOH); Member of National Clinical Research Committee, MOH; Member of the Standing Committee on Traditional and Complementary Medicine, MOH; council member of the Malaysian Pharmaceutical Society (MPS); Member of the Academy of Pharmacy; Secretary, Central Branch, Alumni Association of King Edward VII College of Medicine and the Faculties of Medicine Universities of Malaya and Singapore; member of the Malaysian Society of Hypertension and life member of the Malaysian Society of Pharmacology and Physiology and National Heart Association of Malaysia.

Prof Leong Chee Onn is currently the Head of the Centre for Cancer and Stem Cell Research and a professor in cell biology at the IMU School of Pharmacy. His research focuses on drug target discovery, novel molecules development through preclinical and clinical trials, and biomarker development for diagnosis and treatment of refractory breast cancers. He has published extensively in high impact journals, including Nature Cell Biology, Cancer Cell, PNAS, Cancer Research and has received numerous international awards including the FMD Fellowship (USA), ORS Award (UK) and the IBMS President’s Award (UK). He was a Senior Research Fellow at Harvard Medical School and Massachusetts General Hospital, Boston, USA. Professor Leong and his team are broadly interested in how genetic abnormalities within cancer cells influence their biology, and how that biology can in turn be exploited to therapeutic advantage.

A/Prof Tan Eng Lai is an Associate Professor attached to the School of Pharmacy (SPHS). He is currently the Head of the Centre for Bioactive Molecules and Drug Delivery and is also serving as the Research Coordinator for the School of Pharmacy. A/Prof Tan obtained his BSc from Murdoch University, Western Australia and Master of Biotechnology from the University of Malaya. Prior to joining IMU, A/Prof Tan worked as a post-doctoral fellow at the University of Malaya where he also obtained his doctorate degree. A/Prof Tan’s research interest is in asopharyngeal carcinoma (NPC) particularly in the virology and molecular prognostication of the disease. He won an award in the Asia-Pacific Congress of Medical Virology in 2003 for his work on elucidating the role of Epstein-Barr virus latent membrane protein 1 in NPC. He was involved in the national research programme on oral cancer and NPC from 2001-2005 and was also the recipient of a grant from the Malaysian Toray Science Foundation. Since joining IMU, A/Prof Tan had secured research grants from MAKNA and the Ministry of Health, Malaysia for his work on NPC.

Dr Gan Sook Yee’s research interests are in algal gene transformation and algal bioactive compounds. She has won several gold and silver medal awards for her work at scientific fairs and exhibitions such as Biotechnology Asia 2006, Seoul International Invention Fair 2006, 16th International Invention Innovation Industrial Design & Technology Exhibition 2005 (ITEX2005) and R & D Expo IPTA, 2005. Dr Gan is currently researching algal compounds for neuroprotection under a project funded by the Ministry of Science, Technology and Innovation (MOSTI).
Master of Pharmacy Practice
The Master of Pharmacy Practice is designed to extend the pharmacists’ knowledge and skills. It aims to develop an informed appreciation of current and future roles in various areas of pharmacy practice including hospitals, community pharmacies, pharmaceutical industries, academia, regulatory bodies, and research organisations with better career opportunities.

The Master of Pharmacy Practice (MPP) degree programme offered by IMU is unique and the first of its kind offered by a Malaysian private institution to local as well as international students. There will be three areas of specialisation offered namely Clinical Pharmacy, Social & Administrative Pharmacy, and Pharmacy Management. The areas of specialisation can be chosen based on the graduate students’ preference and according to their career needs in the future.

“Research and Postgraduate Studies |

Master of Pharmacy Practice

The Master of Pharmacy Practice is designed to extend the pharmacists’ knowledge and skills. It aims to develop an informed appreciation of current and future roles in various areas of pharmacy practice including hospitals, community pharmacies, pharmaceutical industries, academia, regulatory bodies, and research organisations with better career opportunities.

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COURSE STRUCTURE

The Programme caters to pharmacists wanting to undertake postgraduate education relevant to their needs, whilst remaining in employment. To meet these requirements, the Programme is designed for maximal flexibility, allowing choice of modules and their timing, and strategically blending online and on-site learning. Cooperative learning is facilitated using online tools and online moderators, taking into account the needs of adult learners.

Semester 1
- Biostatistics & Research Methodology\(^a, b, c\)
- Pharmacotherapeutics I\(^a\)
- Pharmacotherapeutics II\(^a\)
- Health Care Ethics and Law\(^a, b, c\)
- Quality Assurance in Pharmacy\(^a, b, c\)
- Pharmaceutical Marketing\(^c\)
- Complementary and Alternative Medicines\(^a\)
- Biopsychosocial Pharmacy\(^a, c\)
- Evidence Based Pharmacotherapy\(^a, b\)

Semester 2
- Pharmacotherapeutics III\(^a\)
- Pharmacotherapeutics IV\(^a\)
- Pharmacoepidemiology & Pharmacovigilance\(^c\)
- Pharmacoeconomics\(^a\)
- Health Wellness and Disease Prevention\(^a\)
- Pharmacy Education\(^a\)
- Business and People Management\(^b, c\)
- Information System and Operation Management\(^b, c\)
- Management of Healthcare Institution\(^c\)

Semester 3
- Research Project\(^a, b, c\)

The teaching format will generally include lectures (face-to-face and e-learning), supplemented by field visits, on site discussions, seminars, case studies and self-directed learning.

"The pharmacy profession continues to evolve in many ways. This Masters programme is aimed at providing useful learning that enables passionate pharmacists to advance their pharmacy practice skills.

We accomplish this through the delivery of an innovative curriculum by a team of dedicated faculty and professional staff”

Dr Wong Pei Se
Programme Director
BSc Pharmacy (Strath),
MSc Clinical Pharmacy (Strath),
PhD (Strath)

Dr Wong Pei Se is a Senior Lecturer in the School of Pharmacy with over 13 years of teaching experience in the area of pharmacy practice. She is a registered pharmacist in Malaysia. She obtained her PhD in Pharmaceutical Sciences (Pharmaceutical Care) from the University of Strathclyde. Her research interests include pharmacy education and emerging roles of pharmacists. Her current projects involve better understanding of self-care in chronic disease and developing the evidence to support future roles for pharmacists."
Our Faculty

Dr Anil Tumkur Mruthyunjaya is a Lecturer in the Department of Pharmacy Practice of IMU. He obtained his BPharm, MPharm and PhD from Bangalore University, Rajiv Gandhi University of Health Sciences and Manipal University, India respectively. He has around 6 years of experience in Pharma marketing along with 7 years of teaching. He has 14 publications till date. He is a member of ISPOR – Asia consortium. He serves as a review board member for the journals like Journal of Pharmacology and Pharmacotherapeutics, Journal of Clinical Pharmacology, and Journal of Basic and Clinical Pharmacy. His present research interests are pharmaceutical care, pharmacoconomics, quality of life and self-care management.

Dr Juman Abdulelah Ali Al-Dujaili graduated with a Bachelor of Pharmacy degree from Baghdad College of Pharmacy, Iraq in 2005. She obtained her MPharm and PhD degrees in Clinical Pharmacy from Universiti Sains Malaysia (USM) in 2010 and 2014, respectively. She is also a licensed pharmacist and has practiced in the hospital settings of Iraq. She has held various academic and professional positions, including Graduate Assistant, USM (2012–2014), Clinical Pharmacist, Baghdad Teaching Hospital (2006-2007), and Responsible Pharmacist in Quality Control Department of Al-Wathik Factory, Iraq (2005).

Dr Juman is a prolific researcher and author. Her research experience is in Outcome-Based Research, Patient Reported Outcomes (PROs), Pharmacoepidemiology and Public Health, as well as Observational Research. She has authored over 10 peer-reviewed publications in international journals, over 15 research abstracts/posters. Dr Juman was the recipient of the Student Travel Grant during the ISPOR 18th Annual International Meeting in New Orleans, USA in 2012. She was also the recipient of the University Science Malaysia’s Award for Publication Excellence in 2011.

Dr Sathish Amirthalingam is a Clinical Pharmacist, IAO certified faculty and currently working as a Lecturer, Department of Pharmacy Practice. He obtained his BPharm and MPharm (Pharmacy Practice) from The Tamilnadu Dr MGR Medical University, PhD from Vinayaka Missions University and PGDHM from Madurai Kamaraj University, India. He was a state first and distinction research scholar in Post-Graduation level. He has a teaching and professional experience of 13 years in the field of pharmacy. He received 6 awards from various bodies from pharmacy fields, including state and national levels for best research paper and the best research project. He had written 2 books in pharmacy field like clinical pharmacy and pathophysiology for pharmacy students. He has published 21 national and international papers, 1 copyright of his innovative clinical software and he has presented 16 papers in national & international conferences. He has conducted various seminars, conferences and clinical camps of health related programmes. He also associated with life member in various professional bodies like IPA, IHPA and he was a member of the board of studies in Department of Pharmacology, SP University, India.

Syed Imran Ahmed is a Lecturer at the Department of Pharmacy Practice with a postgraduate degree in Clinical Pharmacy from the University of Science Malaysia (USM). He is a registered pharmacist in Pakistan and Botswana and has over thirteen years’ experience both in practice and academia. He has held various academic and professional positions, including Production Pharmacist, Abbott Laboratories, Pakistan (2002–2003), Registered Community Pharmacist, Botswana (2003-2006), Lecturer in Pharmacy Practice, IMU, Malaysia (2007-Till date). He is currently undertaking the Doctor of Philosophy (PhD) at University of Science Malaysia.

Syed Imran Ahmed has keen interests in research areas including health professions’ education, pharmaceutical care and public health with special focus on anticoagulants and HIV/AIDS care. He has authored over 25 peer-reviewed publications in various reputed international journals and has presented many papers at local and international conferences. He is also serving as a reviewer for many reputed journals.
MSc in Environmental Health
"Malaysia has experienced tremendous socio-economic development over the last 30 years although the magnitude and pace vary from state to state. Most states have experienced rapid urbanisation and industrialisation and overall improvement. Death and disease burden from emergencies, disasters and disease outbreaks associated with environmental risk factors can be significantly reduced by effective intervention, preparedness and response capacities. Health Impact Assessment provides decision makers with information about how any policy, programme or project may affect the health of people. This programme aims to produce staff scientists and specialists with a strong foundation in the broad field of environmental health at the Masters level and subsequently doctoral level academic training. They will be adequately trained to improve the health of the general population through appropriate evaluation and interpretation of environmental data, and planning and implementation of prevention and mitigation environmental health programme and policy. Graduates will find opportunity to work in government agencies, non-profit organisation, environmental consulting firms, industry and university settings.”

Dr Yap Poh Sin
Programme Director
BSc. Microbiology (OSU), MSc. Food Science (OSU)
MSc. Epidemiology (UCDavis), PhD. Epidemiology (UCDavis)

Dr Yap Poh Sin obtained her PhD in Epidemiology from University of California, Davis with an area of emphasis in environmental and occupational epidemiology. Prior joining IMU, she worked for The California Air Resources Board (CARB) under California Environmental Protection Agency, where she served as the lead staff for several of CARB’s in-house studies related to health effects associated with air pollution, particularly in vulnerable populations and co-lead for several accountability projects related to health effects associated with the impact of air quality actions. She also worked as Principle Biostatistician in Roach Molecular System on projects related to Human papillomavirus (HPV) and oncology. She has extensive experience in data collection, analyzes and interprets numerical data from experiment studies, and observational studies as well as applies statistical methodology to provide information for scientific research statistical method.

**MSc in Environmental Health**

The postgraduate degree programme is being designed to have a flexible modular approach, whereby a student will be able to accumulate credits from completed modules. Modules will be designed to fit applicants with different basic degree qualifications such as Biomedical Science, Nursing, Pharmaceutical Science and Environmental and Occupational Health Sciences.

**COURSE STRUCTURE**

The teaching format will generally include lectures (face-to-face and e-learning), supplemented by field visits, on site discussions, case studies and self-directed learning. The Core Modules will be taught in Semesters 1 and 2 and the Elective Modules in Semesters 2 and 3. The Research Module will extend across Semesters 1, 2 and 3.

It is an innovative curriculum therefore it will highlight the importance of various pollutants (outdoor and indoor air quality / water quality) on human health. It will introduce current methods for assessing health impacts and appropriate intervention strategies to regulate and improve environmental health. This would enable innovations in the management of environmental pollution.

**For Selectives / Electives**

There is a selective option for students to study the National Institute for Occupational Safety and Health (NIOSH) Programme on Occupation Health and other relevant elective modules on environmental health.

<table>
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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
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<tbody>
<tr>
<td><strong>Environmental Health</strong></td>
<td><strong>Health Management and Economics</strong></td>
<td><strong>Masters Dissertation</strong></td>
</tr>
<tr>
<td><strong>Principles of Research Methodology and Epidemiology</strong></td>
<td><strong>Environmental Pollution</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Biostatistics</strong></td>
<td><strong>Masters Dissertation</strong></td>
<td></td>
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<tr>
<td><strong>Masters Dissertation</strong></td>
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Malaysia has experienced tremendous socio-economic development over the last 30 years although the magnitude and pace vary from state to state. Most states have experienced rapid urbanisation and industrialisation and overall improvement. Death and disease burden from emergencies, disasters and disease outbreaks associated with environmental risk factors can be significantly reduced by effective intervention, preparedness and response capacities. Health Impact Assessment provides decision makers with information about how any policy, programme or project may affect the health of people. This programme aims to produce staff scientists and specialists with a strong foundation in the broad field of environmental health at the Masters level and subsequently doctoral level academic training. They will be adequately trained to improve the health of the general population through appropriate evaluation and interpretation of environmental data, and planning and implementation of prevention and mitigation environmental health programme and policy. Graduates will find opportunity to work in government agencies, non-profit organisation, environmental consulting firms, industry and university settings.”

Dr Yap Poh Sin
Programme Director
BSc. Microbiology (OSU), MSc. Food Science (OSU)
MSc. Epidemiology (UCDavis), PhD. Epidemiology (UCDavis)

Dr Yap Poh Sin obtained her PhD in Epidemiology from University of California, Davis with an area of emphasis in environmental and occupational epidemiology. Prior joining IMU, she worked for The California Air Resources Board (CARB) under California Environmental Protection Agency, where she served as the lead staff for several of CARB’s in-house studies related to health effects associated with air pollution, particularly in vulnerable populations and co-lead for several accountability projects related to health effects associated with the impact of air quality actions. She also worked as Principle Biostatistician in Roach Molecular System on projects related to Human papillomavirus (HPV) and oncology. She has extensive experience in data collection, analyzes and interprets numerical data from experiment studies, and observational studies as well as applies statistical methodology to provide information for scientific research statistical method.
Our Faculty

A/Prof Cho Min Naing obtained her MBBS and MMedSc in Preventive and Tropical Medicine from the University of Medicine, Yangon, Myanmar. She then continued her studies and obtained MSc in Health economics from Chulalongkorn University, Bangkok, Thailand and PhD from University of Queensland, Brisbane, Australia. She was awarded Fellowship of Royal College of Physician in 2008. By training and by practice, she is a medical malariologist. Her main field of interest is in malaria case management. During her spare time, she enjoys home-gardening, and reading novels and poetry.

A/Prof Verasingam Kumarasamy is currently the Associate Professor of Community Medicine at IMU. Before joining IMU, he was the Director and Epidemiologist of the National Public Health Laboratory Sungai Buloh, Communicable Diseases Division, and Ministry of Health. He obtained his BSc in Biochemistry from the University of Malaya in 1973, and MBBS from Grant Medical College University of Bombay in 1980 and the Master of Public of Health from the University of Malaya in 1990. A/Prof Verasingam was appointed as a representative from Malaysia in developing Early Warning Systems for Infectious Disease in the ASEAN region in the Asian Secretariat based in Jakarta, from 2003-2006. He was instrumental in developing and implementing the National Dengue Serotype Surveillance in 2004. He was appointed as Chief of Field Operations during the Japanese Encephalitis/Nipah Virus outbreak in 1999 in Port Dickson to coordinate all control activities on the ground. During the many years in government service he has gained vast hands on experience in public health management and in the prevention and control of infectious disease outbreaks, notably cholera, typhoid, malaria, dengue and Japanese encephalitis. He has written many protocols and developed guidelines on the above. A/Prof Verasingam has also published and presented numerous scientific papers over the years. He was awarded the Excellent Service Awards in 1993 and 1999. He also received the Vocational Award for by the Rotary International in 2000 for his meritorious and outstanding service to the community. He was also conferred the title Ahli Mangku Negara by the Yang di Pertuan Agong in the year 2000 and the Excellent Community Service Medal by the Yang di Pertua Negeri, Negeri Sembilan in 2004. His field of interest includes health management, vector borne diseases, outbreak control and health care delivery to marginalised populations.

Prof Stephen Ambu is a professor with the School of Postgraduate Studies, Institute for Research, Development and Innovation. Professor Ambu is from Kuala Lumpur, and his qualifications are BSc (Zoology Major) (Madras University, India, 1973), MSc (Parasitology) (University College of North Wales, United Kingdom, 1976) and PhD (Parasitology) (University Malaya, 1981). Prior to joining IMU, Professor Ambu had served at the Institute for Medical Research (IMR), Ministry of Health Malaysia and Universiti Technologi MARA. He was the former Head of the Medical Ecology Division, Snake Farm (antivenom production) and the founding Head of the Environmental Health Research Centre at the IMR. He was also the Head of the WHO Collaborating Centre for Training to Eliminate Lymphatic Filariasis, IMR (2004 – 2005). Professor Ambu’s specific areas of teaching are in Parasitology and Environmental Health. He has done research on parasitology, environmental health and ecology of small mammals and reptiles in relation to public health and has several publications and presentations to his credit in local and international journals. Currently there are a number of postgraduate students doing their MSc and PhD under his supervision. He has served on National Committees Related to environmental health. He has worked on projects with the World Health Organisation and also the University of Western Sydney, Australia. He has received awards for the Federal Government, Ministry of Health and the Malaysian Society of Parasitology and Tropical Medicine Medal.
In terms of research collaboration, we are partners with various local and foreign institutions in areas such as cancer, bioactive molecules, nutrition and environmental health. Our collaborating partners include Universiti Malaya (UM), Universiti Kebangsaan Malaysia (UKM), Universiti Putra Malaya (UPM), Universiti Teknologi Mara (UiTM), Cancer Research Initiatives Foundation (CARIF), Institute for Medical Research and University of Strathclyde, Scotland. We also have close links with local hospitals, especially Hospital Tuanku Ja’afar in clinical research.

Exposure to working in a university abroad as part of the postgraduate training is indeed an invaluable experience. Postgraduate students may be jointly supervised by faculty from IMU and partner universities. The opportunity to conduct part of students’ research at the partner universities is under the University’s Student Mobility Programme.
What Our Students Say...

Elham Mohammadi Nasr (Australia)
MSc in Analytical and Pharmaceutical Chemistry Graduate

“Studying at IMU has been a great opportunity for my career and an eye opener; not only does it offer first class education but it also encourages and motivates its students to believe in themselves through continued social and moral support”.

Jeyashanthini Nalaiya (Malaysia)
MSc in Analytical and Pharmaceutical Chemistry Graduate

“Initially I was wondering how an on-going assessment will be better than an exam but now after completing six months, I find that it is a truly effective way of learning which involves a lot of reading and getting more information rather than just reading the lecture notes and sitting for exams, after which we don’t remember what we have learned. It has a good approach towards research writing as well. After hearing my experience in IMU, quite a number of my other colleagues who have completed their Masters in other local universities agree that this provides a much better training for a Master level.”
Ayuba Sunday Buru (Nigeria)
PhD in Medical and Health Sciences (By Research) Graduate

“With the wealth of experience gained through well defined independent and collaborative research and character development programmes, I believe I am well positioned on a firm foundation through which health related issues and challenges can be effectively addressed. It’s a privilege to be part of IMU’s holistic programmes in medical and health sciences to the service of humanity.”

Wong Li Zhe (Malaysia)
MSc in Molecular Medicine Graduate

“The lessons and lectures in this MSc Molecular Medicine programme were perfectly organised and structured. They fostered the inventive, independent thinking and analytical abilities that will enable me to apply myself in a wide range of career opportunities. Various areas were incorporated throughout this entire course such as, introducing various types of human diseases, followed by different approaches in treating the diseases which could be useful in current and future medical field due to the alarming health state in the society. The highly approachable lecturers make me enjoy each and every moment of this course.”
**Muhammad Daniel Azlan Mahadzir (Malaysia)**  
*MSc in Molecular Medicine Graduate*

“Molecular Medicine gives me a new learning experience. All modules have been designed to bring us from the molecular basis or diseases to the available and ever-expanding therapeutic options. This course involves a very active learning environment hence it gives no boundaries in knowledge acquisition. A group of very informative and approachable academic staffs is also a plus point of this course. I have a firm belief that the gained knowledge has prepared me to be a mature medical researcher in future.”

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**Chin Yin Yien (Malaysia)**  
*MSc in Medical and Health Sciences (By Research) Graduate*

“Throughout my studies here, I have gained various experience, skills and techniques not only through research but workshops and seminars as well. The course develops the potential in us, making us realise our ability to lead, to be independent, disciplined and also enhances our soft skills through conferences and research presentations.”
Jamilah Abd Jamil (Malaysia)
MSc in Public Health Graduate

“MSc in Public Health has given me a solid foundation in epidemiology and biostatistics. Not only that I have better understanding of different public health issues. With the help of the dedicated lecturers with enormous experience in this field, this programme enhances my ability to think critically about innovative solutions to public health problems.”

Gopirajan A/L Rasamy (Malaysia)
MSc in Public Health Graduate

“To be taught by a team of experts with their field of expertise, and knowledge backed up by experience is definitely the plus point of this programme. Every single module has been tailored to ensure that perception of knowledge and information is entirely gained by the students. The incorporation of different aspects of learning such as field visits, community surveys, reports and research helps in giving the students a much more complete picture of the Public Health field. I strongly believe the knowledge I have gained would help my foray into the field of Public Health.”

Ng Ai Kah (Malaysia)
MSc in Public Health Graduate

“The programme is really beneficial because it provides comprehensive scopes in terms of the history and structure of health systems and organisation, management and health economics, instilling an understanding of public health field. At the same time, this programme also provides numerous research opportunities and guidance beyond the lectures. This helps to develop my specific interests particularly in nutrition and dietetics scope. I am grateful to be part of this programme and appreciating how it will facilitates my professional development.”
Our University offers a wide range of physical resources and a stimulating research environment for postgraduate students to make the most of their study experience in the university. The University has accredited modern and efficient laboratories with a wide range of instrumentation and scientific equipment for research and an animal facility. The equipment in the laboratories include Inductively Coupled Plasma Mass Spectrometry (ICP-MS), High Performance Liquid Chromatography (HPLC), Zeta Potential Analyser, Flowcytometer, Scanning Electron Microscope, Spectrophotometer, Luminex Multiplex Analyser and Protein Purification System.

In addition, there is a library, seminar rooms, lecture halls, e-learning laboratories and an auditorium equipped with audio-visual systems for live broadcasting. A student lounge is also available at the Bukit Jalil campus for various indoor games and for relaxation. Students can also access a fully-equipped gymnasium and a dance studio with apt sound system.
IMU Campuses

The International Medical University’s main campus is in a small suburb, Bukit Jalil, about 20 km south of the city of Kuala Lumpur, away from the hustle and bustle of hurried life. This campus, which is home to 20 educational options from pre-university level to postgraduate studies, provides a dynamic, interactive environment that fosters educational and research opportunities.

The University’s clinical schools are spread over the southern states of Peninsular Malaysia, two in Seremban and Kuala Pilah (Negeri Sembilan, Malaysia) as well as Batu Pahat and Kluang (Johor, Malaysia). These clinical schools are located near IMU’s teaching hospitals, where professional practical training is provided for the students.

Over the years, there were several phases of campus expansion in order to offer better education and research facilities and additional student life amenities. The University continually invests in its facilities, main campus and clinical schools to provide a better learning environment to these students.
PROGRAMMES AVAILABLE

PRE-UNIVERSITY
- Foundation in Science
  KPM/JPT(N)/010/3/01809/2018

UNDERGRADUATE
- Medicine
  KPM/JPT(R)/721/6/0033/09/2019
- Dentistry
  KPM/JPT(R)/724/6/0010/01/2018
- Pharmacy
  KPM/JPT(R)/727/6/0050/09/2019
- Pharmaceutical Chemistry
  KPM/JPT(R)/442/6/0003/01/2018
- Nursing
  KPM/JPT(R)/723/6/0125/04/2020
- Dietetics with Nutrition
  KPM/JPT(R)/726/6/0021/09/2017
- Nutrition
  KPM/JPT(N)/726/6/0011/06/2017
- Biomedical Science
  KPM/JPT(R)/421/6/0011/12/2017
- Medical Biotechnology
  KPM/JPT(554)/6/0014/09/2017
- Psychology
  KPM/JPT(R)/311/6/0013/09/2017
- Chiropractic
  KPM/JPT(R)/726/6/0054/08/2019
- Chinese Medicine
  KPM/JPT(KA/10260)01/2016
- Nursing Science
  (for registered nurses)
  KPM/JPT(R)/723/6/0125/01/2019

POSTGRADUATE
- Public Health (MSc)
  KPM/JPT(R)/720/7/0077/09/2020
- Analytical & Pharmaceutical Chemistry (MSc)
  KPM/JPT(N)/442/7/0011/01/2017
- Molecular Medicine
  (MSc)
  KPM/JPT(R)/421/7/0011/07/2017
- Pharmacy Practice
  (Master)
  KPM/JPT(R)/727/7/0051/3/2019
- Environmental Health
  (MSc)
  KPM/JPT(N)/422/7/0005/07/2019
- Medical and Health Sciences
  (MSc & PhD by research)
  KPM/JPT(R)/721/6/0043/01/2020
  KPM/JPT(R)/720/7/0049/06/2019