



# Expand horizons and career prospects with IMU

HEALTH Informatics and Analytics (HIA) is a discipline that combines healthcare, information technology and artificial intelligence.

It is a fast-growing field that seeks to create, advance and apply computer-based solutions to solve formal and practical problems arising from the management and analysis of very large health-related data sets.

This programme has been designed to suit the needs of future health IT specialists and data scientists, enabling them to perform analyses and develop novel tools and methods for this rapidly growing field.

It is aimed at students with diverse backgrounds, not limited to science related fields.

Applications of HIA cover precision diagnosis, early detection of serious illnesses, assistance to cardiology, radiology or surgery, drug discovery and healthcare administration.

The technologies involved are related to data science / data analytics, artificial intelligence, image processing, wearables (smartwatches) and Internet of Things (IoT), robotics and augmented/virtual reality.

As one of the fastest growing economic sectors worldwide, Health Informatics (also referred to as Digital Health) is, in many countries, creating job opportunities twice as fast as any other economic sector.

With this career gaining popularity, the International Medical University (IMU) will be offering a Master in Health Informatics and Analytics (MHIA) with its first intake in September 2021.

This programme will train the next generation of leading researchers and practitioners seeking to develop the most effective ways to organise, coordinate, manage, and deliver high quality patient care and public health.

Students will become experts

in linking and analysing large complex datasets, using techniques which are transforming medical research and creating exciting new commercial opportunities.

The programme will serve working professionals with a degree or equivalent and/or experience in science, engineering, computing, mathematics, business, nursing or public health.

**Upon graduation, the students will be able to:**

- Serve as a subject matter expert in Healthcare Informatics and Analytics within a team.
- Develop structured processes to ensure data availability, usability, integrity and security.
- Utilise a wide variety of methods and technologies to support decision making.
- Utilise innovation and systems thinking to move the organisation forward.

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# Ideal programme for health, social care practitioners

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IMU's one-year full-time MHIA programme – also available part-time – provides the perfect pathway for recent graduates or professionals from various areas who intend to move their career into this area of the healthcare sector.

This is also an ideal programme for current health and social care practitioners who are looking to gain additional knowledge and skills in digital innovation.

Delivered by a multidisciplinary team of experts in computing and health related disciplines, students in this programme will be able to learn about state-of-the-art technologies and systems, either related to IT (for example data analytics, mobile applications, sensors and wearables) or healthcare (for example electronic health records and remote monitoring).

This integrated MHIA degree prepares graduates for a range of careers in the healthcare sector across various settings where health improvement is sought, enhanced by technology.

This includes health related industries

in the private sector as well as ministries and departments in the public sector.

The programme will also lead on to opportunities for further studies (PhD).

The MHIA programme is a 40-credit programme and is offered in three levels (Postgraduate Certificate, Postgraduate Diploma and Master) allowing for multiple exit. Students will enrol into the Masters programme but they can exit at the Postgraduate Certificate and Postgraduate Diploma levels.

Students can choose to complete all modules of the Master programme, within 1 year as a full-time student or within a maximum period of 4 years as a part-time student.

The programme offers an accelerated, modular and blended learning to providing more flexibility to working professionals in the form of online study options.

In order to ensure a rounded understanding of the issues to formulate intervention and value creation strategies in class simulation or actual industry-based intervention, students will have to undergo a robust curriculum that involves lectures, tutorials, case studies, written assignments, group project,

presentations and discussion boards.

This programme is open to students with a Bachelor degree (or equivalent through APEL) in any discipline / area. Students without a computing and/or statistical background will have to take the 'Introduction to Computer Science and Programming' and/or 'Statistics Thinking for Health Analytics' modules at the very beginning of the programme.

IMU offers postgraduate programmes including Master in Science programmes in Public Health, Analytical and Pharmaceutical Chemistry, Molecular Medicine, Acupuncture and Pharmacy Practice; Master of Counselling; Postgraduate Diplomas in Diabetes Management and Education, Implant Dentistry, Endodontics and Prosthodontics; postgraduate programmes in Health Professions Education and Business Administration in Healthcare Management as well as MSc and PhD in Medical and Health Sciences.

For more information about this or our other postgraduate programmes, please visit [www.imu.edu.my](http://www.imu.edu.my) or email: [postgraduate@imu.edu.my](mailto:postgraduate@imu.edu.my), or call 03 – 2731 7272.