



اَبُو بَكْرٍ سَيِّدِي تَبَكُّوْا لِيْ كَيْفَ اَمَّا رَا
UNIVERSITI
TEKNOLOGI
MARA

MASTER OF PATHOLOGY (CHEMICAL PATHOLOGY) (MD791)



POSTGRADUATE
FACULTY OF MEDICINE
UNIVERSITI TEKNOLOGI MARA

MASTER OF PATHOLOGY (CHEMICAL PATHOLOGY)

Programme Overview

The Master of Pathology (Chemical Pathology) programme is designed to produce competent chemical pathologists with in-depth knowledge of the chemistry of diseases, analytical techniques, and laboratory management, preparing them to lead clinical laboratories and deliver diagnostic and consultation services.

The four-year programme is a coursework-based programme with a research component. It comprises Stage 1, which spans one year, and Stage 2, which extends over three years. Stage 1 covers the fundamentals of four major pathology sub-disciplines, while Stage 2 provides in-depth training in Chemical Pathology.

The programme is conducted at Universiti Teknologi MARA (UiTM) and Ministry of Health Malaysia facilities, providing diverse clinical exposure and hands-on learning opportunities.

Level of Study	Master's Degree (Level 7, MQF)
Language	English
Mode of Study	Coursework (with research), Full time
Study Duration	4 years (Maximum 7 years)
Intake	June

Programme Educational Objectives

- 1) To produce pathologists who have comprehensive understanding and advanced knowledge, and competent in various speciality areas of chemical pathology.
- 2) To produce pathologists who are effective leaders that can communicate ideas well to healthcare teams and communities, and adaptable to emerging technologies in clinical practice and research.
- 3) To produce pathologists who have good ethical conduct, professionalism, committed towards personal development and lifelong learning while possessing entrepreneurship skills in driving innovation in chemical pathology field.



Programme Learning Outcomes

At the end of the programme, the trainees would be able to:

- 1) Demonstrate core, systematic and advanced knowledge in the field of chemical pathology.
- 2) Demonstrate appropriate knowledge of laboratory management in provision of effective and quality laboratory services.
- 3) Perform competent technical skills as a chemical pathologist.
- 4) Demonstrate essential teamwork with colleagues, other healthcare providers and external organisation.
- 5) Communicate effectively and appropriately with colleagues, other healthcare providers, patients, public and representatives from external organisations.
- 6) Operate common digitalized processes in laboratory services.
- 7) Conduct research, statistical analysis and interpretation of research data in the field of chemical pathology.
- 8) Display effective leadership with full responsibilities and accountability.
- 9) Integrate good personal skills for independent and lifelong learning through continuous academic or professional development.
- 10) Demonstrate appropriate knowledge of entrepreneurial processes in laboratory services.
- 11) Practise professional and ethical conduct in work and research-based activities.

Programme Structure

Stage 1 (Year 1)

- Anatomic Pathology
- Chemical Pathology
- Haematology
- Medical Microbiology

Part I Professional Examination

Stage 2 (Year 2)

- Analytical Biochemistry 1
- Clinical Biochemistry 1
- Research 1 & 2

Stage 2 (Year 3)

- Clinical Biochemistry 2
- Quality and Laboratory Management 1
- Quality and Laboratory Management 2
- Specialised Chemical Pathology
- Research 3 & 4

Stage 2 (Year 4)

- Quality and Laboratory Management 3
- Clinical Biochemistry 3
- Analytical Biochemistry 2
- Research 5

Part II Professional Examination

The programme adopts a service-based, apprenticeship-style training model with both formative and summative assessments.

Upon successful completion of the Part II Professional Examination, candidates will be awarded the Master of Pathology (Chemical Pathology) degree.

Entry Requirements

Local candidates who wish to pursue Master of Pathology (Chemical Pathology) have to fulfil the following requirements:

1. A valid, basic medical degree registrable with the Malaysian Medical Council (MMC).
2. At least THREE (3) years of clinical experience after attainment of the basic medical degree, comprising of:
 - a) satisfactory completion of housemanship, *and*
 - b) post-housemanship clinical experience of at least ONE (1) year duration.
3. Full registration and a valid Annual Practising Certification (APC) with the MMC during training.
4. Pass an entrance evaluation demonstrating the knowledge and aptitude to undertake Pathology training, e.g., entrance examination and/or interview for the MPath programmes in Malaysia.
5. Meet additional requirements set by the university (<https://ipsis.uitm.edu.my/>).

Contact Details

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