

Master of Science (MSc) in Epidemiology in Practice

Jointly offered by the International Academy of Public Health (IAPH)
and RAK Medical & Health Sciences University (RAKMHSU)

Applied epidemiology for real public health impact



Program Overview

The Master of Science in Epidemiology in Practice is a competency-based, practice-oriented graduate program designed to build strong competencies in applied epidemiology and evidence-based public health action. The program equips participants with practical skills to investigate, analyze, and respond to public health challenges across diverse settings.

Key Learning Outcomes

Upon completion of the program, participants will be able to:

- Investigate disease outbreaks using applied epidemiological methods
- Analyze surveillance data to identify patterns and trends
- Manage public health emergencies and response activities
- Design and implement evidence-based public health interventions
- Apply epidemiological knowledge across health systems, NGOs, humanitarian agencies, and research settings

Program Impact

Graduates are prepared to contribute to:

- Surveillance systems and disease control
- Outbreak investigation and response
- Public health emergency preparedness
- Research and evidence-based public health action



Program Name

Master of Science (MSc) in
Epidemiology in Practice



Duration

18–24 months



Credit Hours

36 CH



Delivery Modality

Online (Modular)



Accreditation

Commission for Academic
Accreditation (CAA), UAE



Partner Institutions

International Academy of Public Health
(IAPH) and RAK Medical & Health
Sciences University (RAKMHSU)

Program Structure

36 Credit Hours | 3-4 Semesters

The program is structured over 3–4 semesters and progresses from core epidemiology training to advanced applied research and practice.

Semester 1

- Basics of Epidemiology
- Public Health Surveillance and Outbreak Investigation
- Public Health Emergency Management
- Communicable Diseases

Semester 2

- Basics of Biostatistics
- Public Health Support Skills
- Elective courses (*Choose Two*)
 1. Risk Communication and Community Engagement
 2. Vaccine-Preventable Diseases
 3. Vector-Borne Diseases
 4. Environmental Health in Emergencies
 5. Principles of One Health
 6. Human Conflicts and Humanitarian Work

Semester 3

- Research Methods and Writing
- Thesis

Mode of Delivery

- Modular format
- Flexible online learning
- Case studies and simulation exercises
- Expert-led webinars

Who Should Apply

Health professionals working in:

- Ministries of Health
- Public health programs
- NGOs and humanitarian agencies
- Research institutions

Credit Hour Exemptions for FETP Graduates

Applicants who have successfully completed a recognized Field Epidemiology Training Program (FETP) are eligible for credit hour exemptions:

- Advanced FETP: 9 credit hours
- Intermediate FETP: 6 credit hours
- Basic FETP: 3 credit hours

Why This Program

- Built for real-world practice
- Competency-based program design
- Flexible academic pathway
- Focus on emergencies
- Emphasis on applied research and professional development

Admission Requirements

- Bachelor's degree in health or other health-related disciplines



Tuition Fees: 40,000 AED

(Equivalent to around 11,000 USD)

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