



DOW UNIVERSITY OF HEALTH SCIENCES

SCHOOL OF POSTGRADUATE STUDIES

PROGRAM SPECIFICATION – SESSION 2025-26

Introduction of Institute & Program

Dow University of Health Sciences (DUHS) is a premier institution in health sciences education and research in Pakistan. In alignment with its mission, DUHS continues to advance its postgraduate programs to address the growing demand for expertise in the field of Molecular Medicine.

This interdisciplinary M.Phil. program is designed for both basic science graduates and medical professionals (MDs) who aspire to bridge the gap between laboratory research and clinical practice. The curriculum offers a structured progression from fundamental principles to advanced applications, enabling students to explore the molecular mechanisms underlying human disease from both research and clinical perspectives.

Students will engage in transformative research across areas such as molecular and cellular biology, molecular genetics, stem cell and regenerative medicine, molecular oncology, artificial intelligence and health informatics, molecular pathophysiology, bioinformatics, and drug discovery. Whether you are a scientist aiming to translate discoveries into therapies or a clinician seeking to integrate molecular insights into patient care, this program provides the ideal foundation.

Structured for timely completion, the program supports students through targeted coursework, expert mentorship, and regular progress evaluations.

Graduates will be well-positioned for careers in academia, clinical research, biotechnology, and the pharmaceutical industry. They will be equipped to lead translational research, contribute to precision medicine, and drive innovations that improve global health.



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Course Title (As approved by PM&DC/HEC)	MPhil Molecular Medicine
Course Duration	2-4 Years
Type of Study	Full time
Study System	Semesters system
Total Credit Hours	Total C.H. 30
Credit Hours Distribution –Semester Wise	12 Credit hours each for 2 semesters of course work, 06 credit hours for thesis
Study Hours Distribution	Study per Semester = 16 weeks Examination = 2 weeks Semester Break = 2 weeks Working Days = 8:30am - 3:00pm (except Friday)
Teaching Hours Distribution	Lecture hours/ Facilitation / Self Directed Studies/ Lab training
Modules Detail with Credit Hours	<p>Semester 1 (General): Courses in this semester provide foundational knowledge in the following areas:</p> <ul style="list-style-type: none"> • Artificial Intelligence and Health Informatics • Epidemiology • Research Methodology • Biostatistics in Health and Medicine <p>Semester 2 (Subject-Specific): This semester comprises 700-level specialized courses, including:</p> <ul style="list-style-type: none"> • Techniques in Molecular Medicine • Cell and Molecular Biology • Molecular Pharmacology • Molecular Pathology and Immunology <p>Note: Each course carries 3 credit hours.</p>
Assessment of Student	Continuous Internal Assessment = 30 % Final Examination = 70% Total = 100%
Teaching Institution	School of Postgraduate Studies
Degree Awarding Institution	Dow University of Health Sciences, Karachi