



MPHIL IN MOLECULAR MEDICINE

PROGRAM SPECIFICATION

Introduction of Institute & Program

Dow University of Health Sciences (DUHS) is one of the flag bearers of health science education and research in Pakistan. Manifested from the mission of the University, DUHS is continuously upgrading its research themes for MPhil in the progressively evolving field of Molecular Medicine.

Molecular Medicine is an interdisciplinary field that sits at the intersection of cutting-edge biomedical research and clinical innovation. This program is designed to bridge the gap between basic science and translational research. The curriculum of the M.Phil. program in Molecular Medicine offers students a comprehensive progression from basic to advanced knowledge, enabling them to develop a deep understanding of the molecular mechanisms underlying human disease. Students will engage in transformative research across diverse areas, including Molecular and Cellular Biology, Molecular Genetics, Stem Cell and Regenerative Medicine, Molecular Oncology, Molecular Pathophysiology, Bioinformatics, and Drug Discovery.

The program aims to develop leaders in the biomedical sciences by providing a rigorous foundation in the molecular mechanisms of human disease. Our program emphasizes a comprehensive understanding of both the theoretical and practical aspects of molecular medicine. Graduates will be uniquely equipped to drive the next generation of discoveries in personalized medicine, translating research insights into clinical applications that enhance patient care and advance global health.



School of
Postgraduate Studies

Course Title (HEC)	MPhil
Course Duration	2-3 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	Semester 1 (General): covering Genetics, Molecular Biology, Research Methodology and Biostatistics and Epidemiology Semester 2 (Subject Specific): Constituted by 700 level courses Techniques in Molecular Medicine Cell Biology Molecular Pharmacology Molecular Pathology and Immunology Each course holds 3 credit hours
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
Eligibility /Admission Criteria	<ul style="list-style-type: none"> • See Relevant Section of DUHS Website
Fee Structure	<ul style="list-style-type: none"> • See Relevant Section of DUHS Website