



# DOW UNIVERSITY OF HEALTH SCIENCES

## SCHOOL OF POSTGRADUATE STUDIES

### M. PHIL PHARMACOLOGY (PS) PROGRAM SPECIFICATION – SESSION 2025-2026

#### Introduction of Institute & Program

Dow College of Pharmacy (DCOP) was established in the year 2007 and has been known as one of the top-ranked institutes in Pakistan. To enhance the quality education and research, Dow College of Pharmacy was upgraded to the Faculty of Pharmaceutical Sciences in the year 2012. Faculty of Pharmaceutical Sciences, is a distinguished and well-renowned entity working under the umbrella of Dow University of Health Sciences. The faculty aims to train pharmacists as a vital part of a complete health care system who can practice the profession in a diversified domains of pharmaceutical and health care settings including hospitals, clinics, community, industries, research and academic organizations of either govt. and / private origin.

Subsequently, M. Phil Pharmacology program was also initiated in the year 2013 which has accreditation from Pharmacy Council of Pakistan (PCP) and Higher Education Commission (HEC) both.

Pharmacology is the study concerned with all aspects of action of drugs on living system including the mechanism of drug action, drug interactions, side effects, clinical indications and pharmacokinetics. Both pre-clinical and clinical characteristics of drugs can be explored at basic, applied, molecular and genetic level. The research uses various *in-vitro*, *in-vivo*, *in-silico* techniques and computational aspects of drug discovery in the areas including all of the following but not limited to Neuropharmacology, cardiovascular, inflammation, infectious diseases, pharmacogenomics, and molecular, clinical, behavioral pharmacology of various systems.

Just like all other research programs at DUHS, our M. Phil program is also offered through School of Postgraduate Studies (SPGS), DUHS. To create the whole process of research and academia smooth and successful, there are few important committees of DUHS for assistance. Scientific committee, Ethical Committees (Animal & Clinical IRB), and BASR (Board of Advanced Studies & Research) are the important university governed bodies to facilitate researchers. Up till now, 10 students have been graduated from DCOP making their impact in various esteemed organizations. And currently, 10 students are enrolled in M. Phil Pharmacology Program at Faculty of Pharmaceutical Sciences to pursue their research career.

The program provides opportunities to acquire the skills of synthesis analysis and development of the research ideas ultimately translating into a form of thesis by the help of highly qualified, active and dedicated faculty.

<b>Course Title (As approved by PCP)</b>	Master of Philosophy (M.Phil.) in Pharmacology
<b>Course Duration</b>	2-4 years.
<b>Type of Study</b>	Full Time, Basic and Applied Research
<b>Study System</b>	Semester System
<b>Total Credit Hours</b>	30 Credit Hours
<b>Credit Hours Distribution – Semester Wise</b>	<ul style="list-style-type: none"> <li>• Semester 1 = 12 Cr. Hrs. course work</li> <li>• Semester 2 = 12 Cr. Hrs. course work</li> <li>• Research work &amp; Thesis = 6 Cr. Hrs. Total 30 Cr. Hrs.</li> </ul>
<b>Study hours distribution</b>	<p>One semester includes:</p> <ul style="list-style-type: none"> <li>• 16 weeks classes/ teaching</li> <li>• 2 weeks Preparatory Leaves</li> <li>• 2 weeks conduct of examinations.</li> </ul>
<b>Teaching hours distribution</b>	The details will include activities such as Lecture / Tutorial/ Journal Club/ Self Directed Studies/ Lab Training
<b>Module / Course Scheme Detail with Credit Hours</b>	Time Table and Course detail will be provided to candidates at the start of session
<b>Assessment of Student</b>	<ul style="list-style-type: none"> <li>• Internal Evaluation (Assignments, presentations, Quiz/Test) =30 Marks</li> <li>• Terminal Exam= 70 Marks</li> <li>• Viva examination after thesis submission and evaluation</li> </ul>
<b>Teaching Institution</b>	Dow College of Pharmacy, Faculty of Pharmaceutical Sciences (Location: OJHA campus, Karachi)
<b>Degree Awarding Institution (DAI)</b>	Dow University of Health Sciences