



# **DOW UNIVERSITY OF HEALTH SCIENCES**

## **SCHOOL OF POSTGRADUATE STUDIES**

### **M.PHIL IN PHARMACEUTICAL CHEMISTRY** **PROGRAM SPECIFICATION - SESSION-2025-26**

<b>Introduction of Institute &amp; Program</b>	<p>Dow College of Pharmacy was established in 2007 and is now one of the top-ranked faculties of the Sindh province. 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 portal of Dow University of Health Sciences and recognized by the Pharmacy Council of Pakistan and the Higher Education Commission of Pakistan.</p> <p>M.Phil. in Pharmaceutical Chemistry is a full-time postgraduate research degree program since 2013. The postgraduate program of Pharmaceutical Chemistry addresses chemical aspects of drug development including computer aided drug designing, synthesis, analytical procedures, <i>in-vitro</i> &amp; <i>in-vivo</i> interactions of drugs. Medicinal chemistry is the most important aspect of this branch of Pharmacy that makes students aware of the importance of various software and instruments to be used for research purposes. PGs will also be trained on different instruments such as UV-Visible Spectrophotometer, HPLC, Mass Spectrophotometer, IR and NMR Spectrophotometer, etc.</p>
<b>Course Title (As approved by PCP)</b>	Master of Philosophy (M.Phil.) in Pharmaceutical Chemistry
<b>Course Duration</b>	2 -4 years.
<b>Type of Study</b>	Full Time
<b>Study System</b>	Semester System
<b>Total Credit Hours</b>	Total Credit hours: 30 hours
<b>Credit Hours Distribution –Semester Wise</b>	24 Credit Hours for 2 Semester of Course work, 6 Credit Hours for Thesis.



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<b>Study Hours Distribution</b>	Study Per Semester = 16 weeks Examination = 2 weeks Semester Break = 2 weeks Working Days = 8:30am - 3:00pm
<b>Teaching Hours Distribution</b>	Lecture hours/ Tutorials /Journal Clubs/ Self Directed Studies
<b>Module / Course Scheme Detail with Credit Hours</b>	See Course Scheme
<b>Assessment of Student</b>	Continuous Internal Evaluation =30% Final Examination= 70% Total= 100%
<b>Teaching Institution</b>	DCOP, Faculty of Pharmaceutical Sciences
<b>Degree Awarding Institution</b>	Dow University of Health Sciences, Karachi
<b>Eligibility /Admission Criteria</b>	See Relevant Section of DUHS Website
<b>Fee Structure</b>	See Relevant Section of DUHS Website



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<b>Semester- I</b>			<b>Semester-II</b>		
<b>COURSE NO</b>	<b>SUBJECT</b>	<b>CR HR</b>	<b>COURSE NO</b>	<b>SUBJECT</b>	<b>CR HR</b>
PCH 701	Biostatistics (Core-I)	2	PCH 702	Molecular modeling and computational chemistry (Major III)	3
PCH 703	Research Methodology (Core-II)	2	PCH 704	Quality Control and Quality Assurance (Major IV)	3
PCH 705	Epidemiology (Core-III)	2	PCH 706	Diagnostic Medicinal Chemistry (Major V)	3
PCH 707	Applied Instrumentation and Analytical techniques (Major- I)	3	PCH 708	Polymer chemistry (Major VI)	3
PCH 709	Advanced Medicinal Chemistry (Major-II)	3	-----	Journal Club and teaching assistance/ Clinical Practice assignments	NC H
-----	Journal Club and teaching assistance/ Clinical Practice assignments				
	<b>Total Cr. Hr</b>	<b>12</b>		<b>Total Cr. Hr</b>	<b>12</b>

<b>Total Credit Hrs of Course Work (Semester1+2)</b>	<b>A</b>	<b>12+12=24</b>
<b>Credit for Research work &amp; submission of Thesis</b>	<b>B</b>	<b>06</b>
<b>TOTAL CREDIT HOURS (A +B)</b>		<b>30</b>