



DOW UNIVERSITY OF HEALTH SCIENCES

SCHOOL OF POSTGRADUATE STUDIES

PROGRAM SPECIFICATION - SESSION-2026-27

(PHD-BIOCHEMISTRY)

<p>Introduction of Institute & Program</p>	<p>The university offers full-time M.Phil & PhD program in the key areas of Biomedical Sciences through SPGS and has developed the modular format to allow a greater range of options within the program to meet the requirements of medically trained personnel who wish to enter teaching and research career in medical and allied health sciences. It provides a sound understanding of human health and disease and diagnostic approaches at the molecular level applying contemporary techniques of modern biomedicine. It provides opportunities to acquire and develop the skills of synthesis, analysis and decision making, required for careers in the field of medical research. Thus, the students are trained as the subject specialist, a researcher and a resource person, well equipped with the methodologies of modern trends of teaching and research in basic medical sciences. The program involves course work and original research thesis components.</p>
<p>Course Title</p>	<p><u>Doctor of Philosophy (PhD)</u> Biochemistry</p>
<p>Course Duration</p>	<p>3 – 8 Years</p>
<p>Type of Study</p>	<p>Full time</p>
<p>Study System</p>	<p>Semesters system</p>
<p>Total Credit Hours</p>	<p>Total C.H. 54</p>
<p>Credit Hours Distribution –Semester Wise</p>	<p><u>12 Credit hours each semester</u></p>
<p>Study Hours Distribution</p>	<p>Study per Semester = 16 weeks Examination = 2 weeks Semester Break = 2 weeks Working Days = 8:30am - 3:00pm (except Friday)</p>
<p>Teaching Hours Distribution</p>	<p>Lecture hours/ Facilitation / Self-Directed Studies/ Lab training</p>
<p>Modules Detail with Credit Hours</p>	
<p>Assessment of Student</p>	<p>Continuous Internal Assessment = 30 % <u>Final Examination</u> = 70% <u>Total</u> = 100%</p>
<p>Teaching Institution</p>	<p>School of Postgraduate Studies</p>
<p>Degree Awarding Institution</p>	<p>Dow University of Health Sciences, Karachi</p>



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PhD in Biochemistry

Course Work Scheme

Year	Semester	Title of Course	Course Code	Credit Hrs.
1 st	I	Research Methodology	HBMS 802	3
		Biostatistics in Health & Medicine	HBMS 805	3
		Epidemiology	HBMS 807	3
		Biosafety & Biosecurity	HBMS 810	3
	II	Medical Genetics & Molecular Medicine	HBMS 801	3
		Fundamentals of Molecular Biology	HBMS 803	3
		Research Instrumentation & Techniques	HBMS 804	3
		Teaching and Research Skills	HBMS 806	3
COMPREHENSIVE EXAMINATION				
2 nd -4 th	III	Synopsis development, submission and approval	HBMS 899	30
	IV-VIII	Research work		
		Submission of Thesis		
TOTAL CREDIT HOURS				30